

FIG. 1

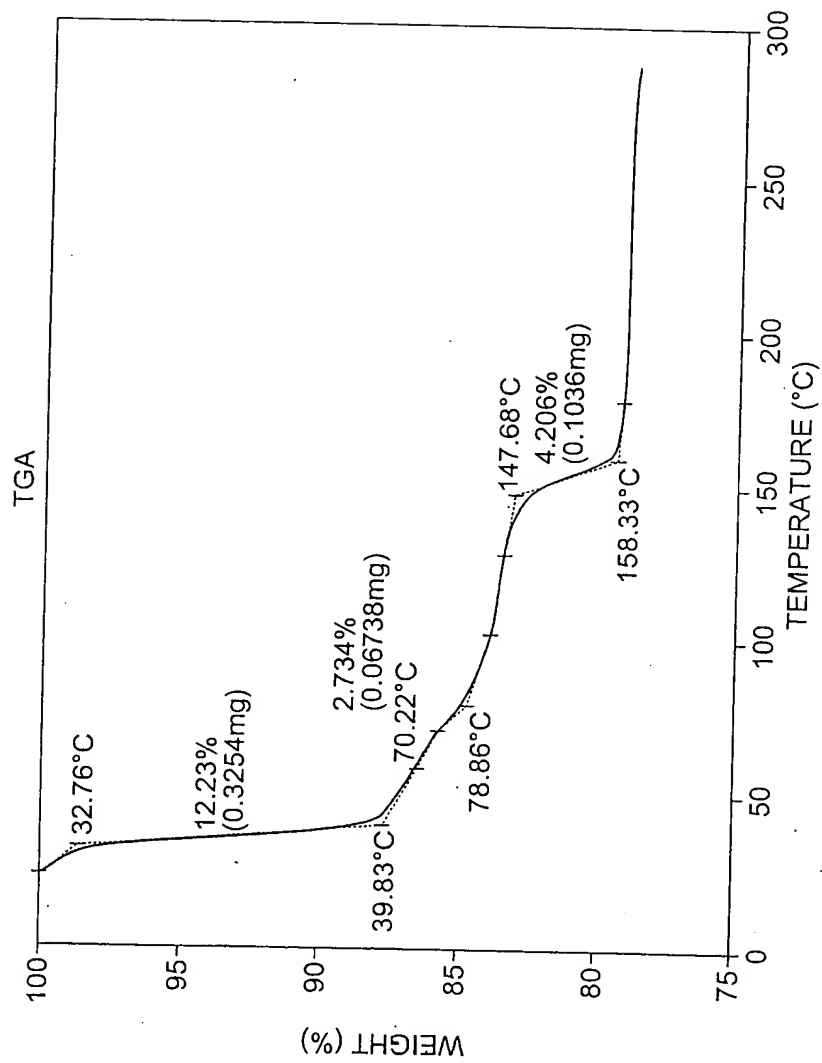


FIG. 2

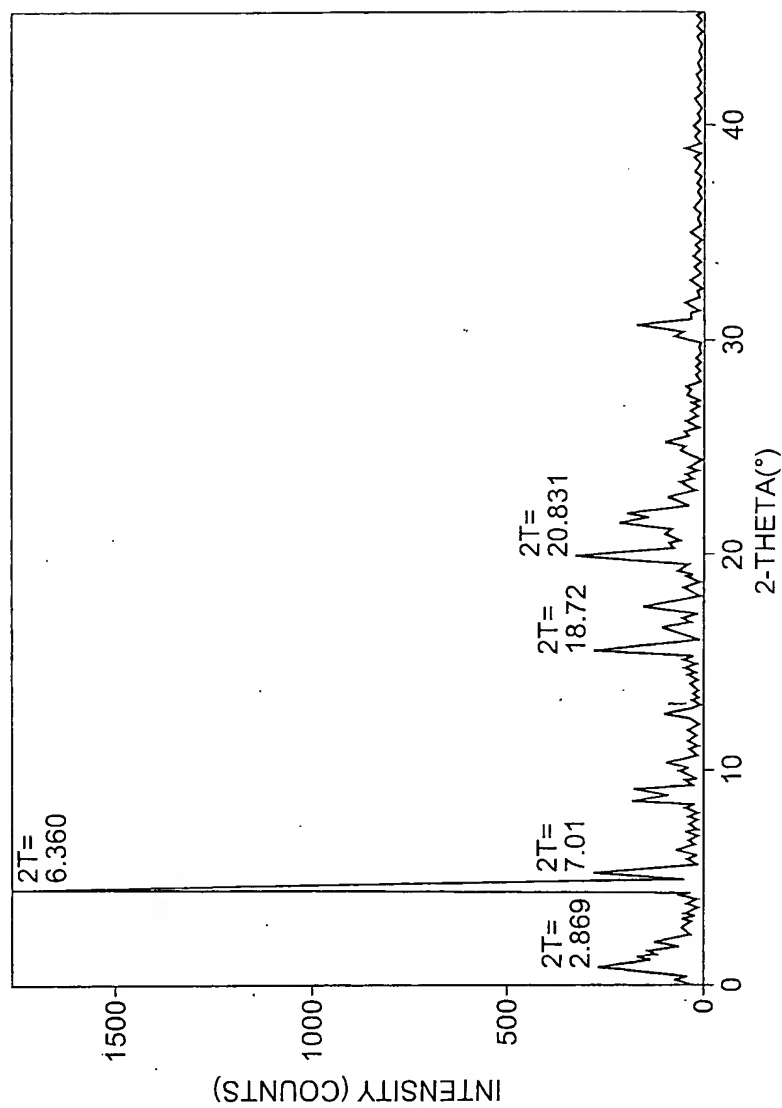


FIG. 3

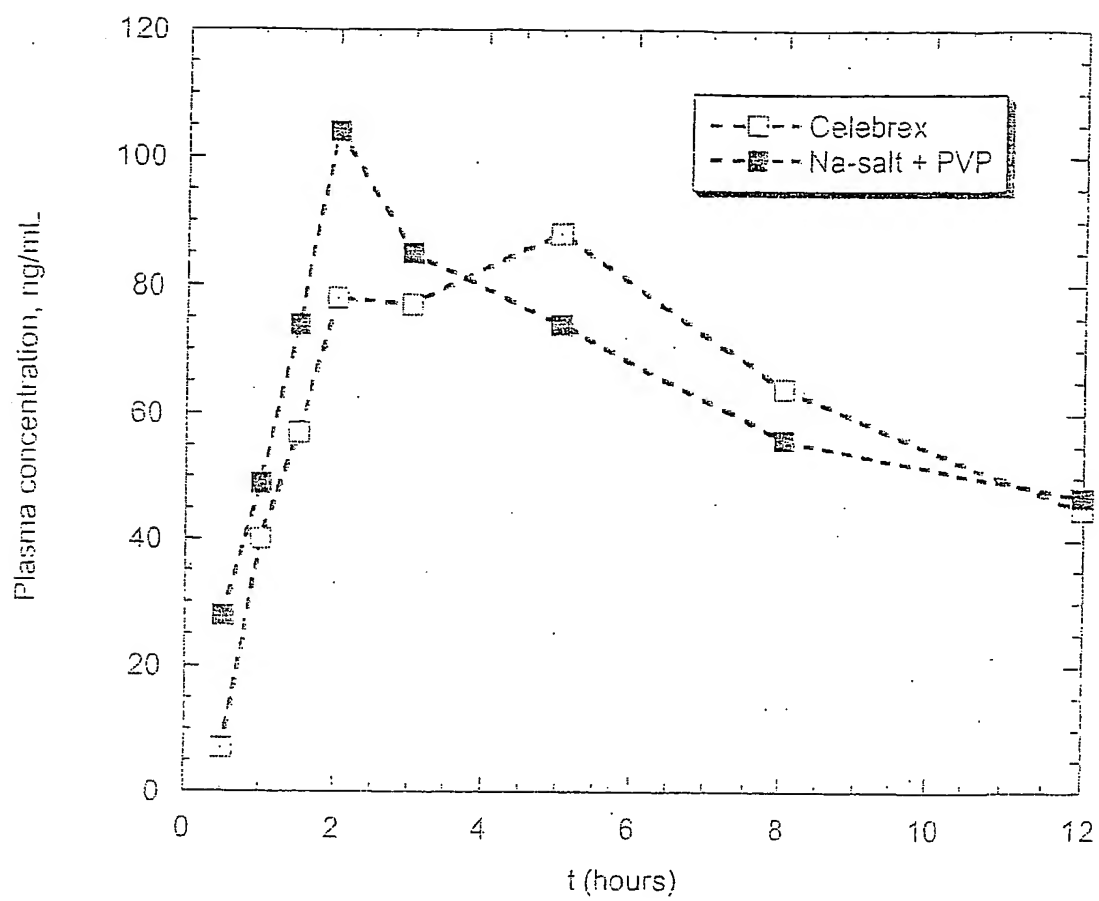


FIG. 4A

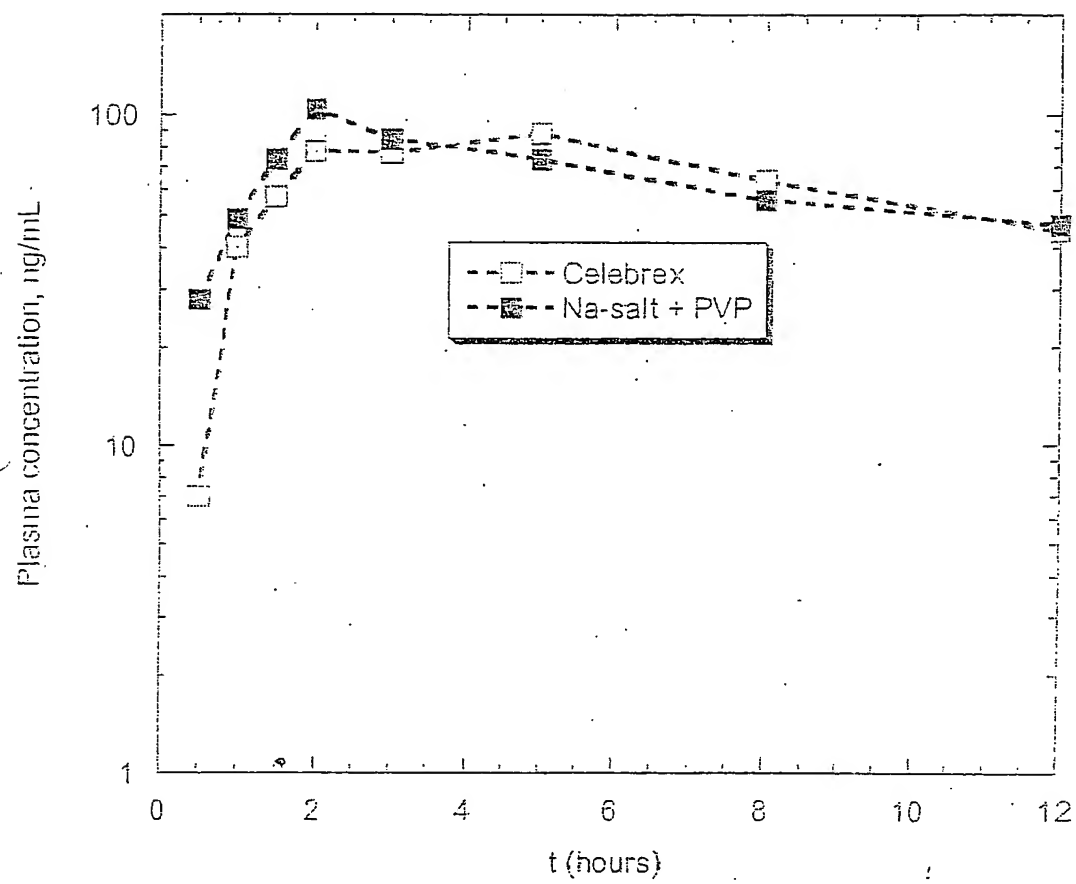


FIG. 4B

|      | Formulation               | Dose Level<br>(mg/kg) | C <sub>max</sub><br>(ng/mL) | T <sub>max</sub><br>(min) | AUC (10 <sup>-3</sup> )<br>(ng·hr/mL) | T <sub>1/2</sub><br>(hr) | Volume of<br>Distribution at Steady<br>State<br>(mL/kg) | Clearance<br>Rate<br>(mL/hr·kg) | Bioavailability<br>(%) |
|------|---------------------------|-----------------------|-----------------------------|---------------------------|---------------------------------------|--------------------------|---|---------------------------------|------------------------|
| Mean | Celecoxib<br>IV           | 1                     | 718                         | NA                        | 3808                                  | 8.21                     | 2498  | 278                             | NA                     |
| SD   |                           | NA                    | 91                          | NA                        | 933                                   | 2.85                     | 590   | 77                              | NA                     |
| Mean | Celecoxib<br>PO           | 5.09                  | 654                         | 1.25                      | 7663                                  | 9.3                      | NA  | 798                             | 40.05                  |
| SD   |                           | 0.050                 | 199                         | 0.88                      | 3119                                  | 3.48                     | NA  | 317                             | 15.45                  |
| Mean | Celecoxib<br>Sodium<br>PO | 5.05                  | 2142                        | 0.75                      | 16426                                 | 9.0                      | NA  | 323                             | 85.80                  |
| SD   |                           | 0.121                 | 569                         | 0.27                      | 4150                                  | 2.71                     | NA  | 77                              | 7.82                   |

FIG. 5

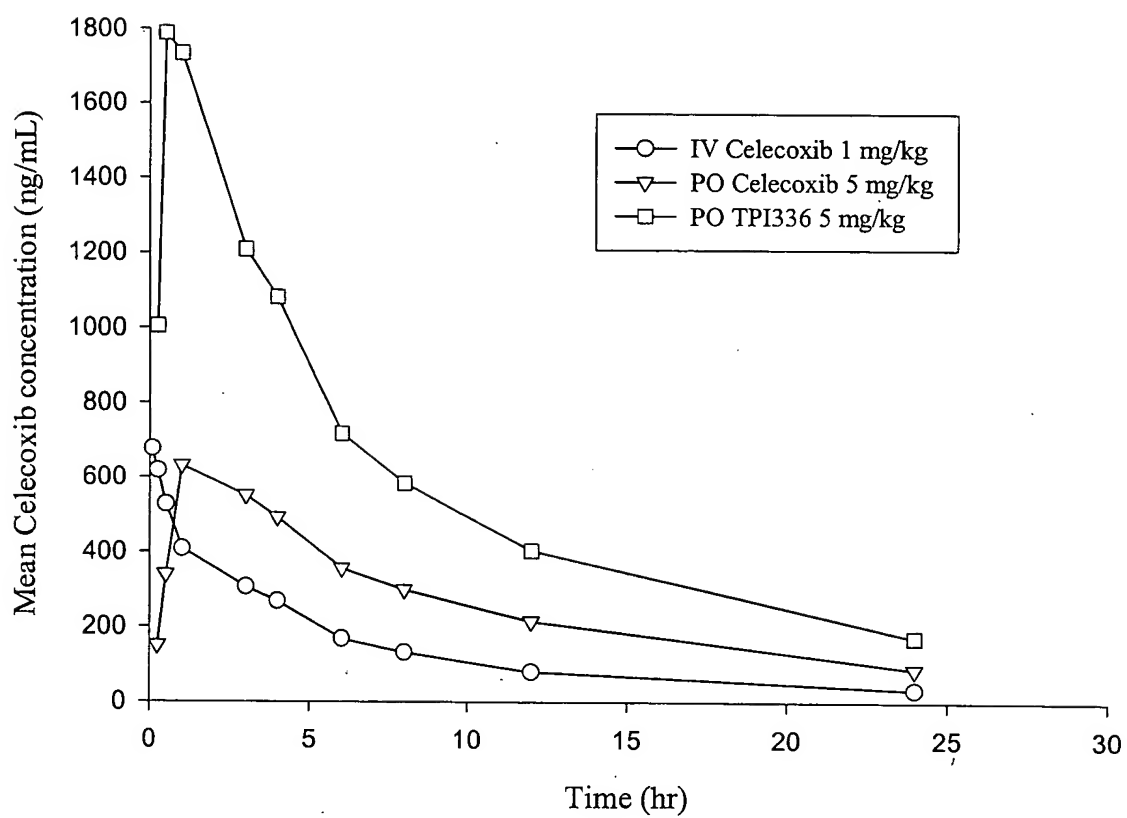
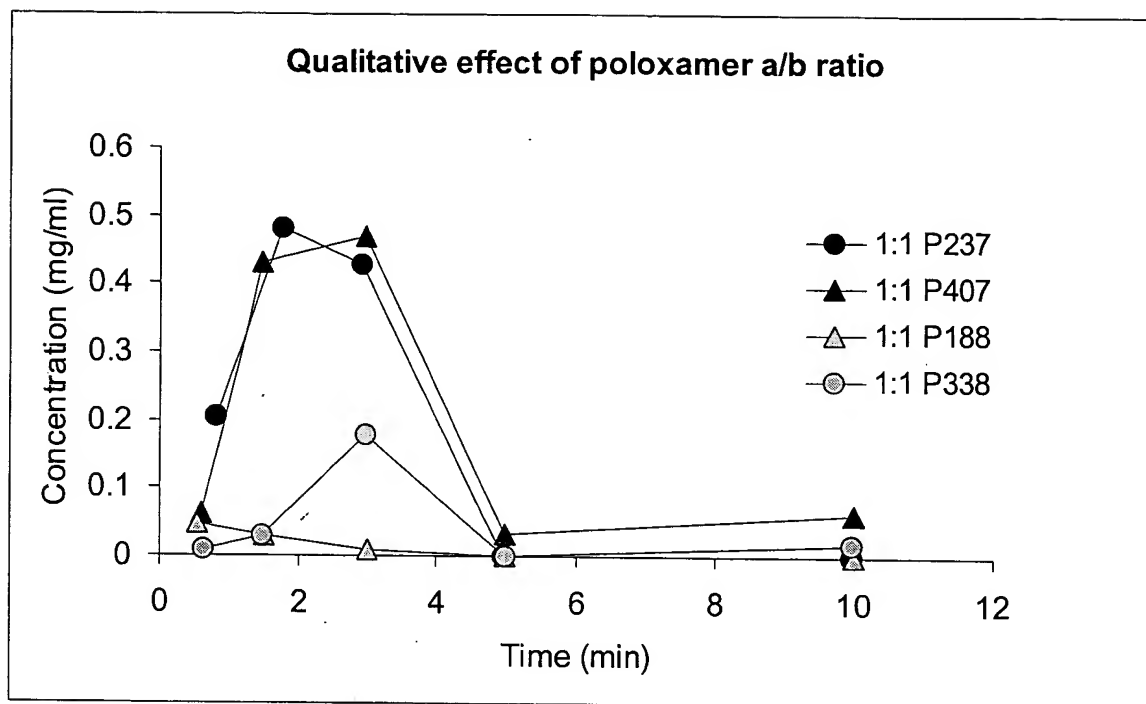


FIGURE 6



| Poloxamer | Physical form | a   | b  | Average molecular weight | Percent a | Percent b | Ratio a/b |
|-----------|---------------|-----|----|--------------------------|-----------|-----------|-----------|
| 124       | Liquid        | 12  | 20 | 2090-2360                | 0.38      | 0.63      | 0.60      |
| 188       | Solid         | 80  | 27 | 7680-9510                | 0.75      | 0.25      | 2.96      |
| 237       | Solid         | 64  | 37 | 6840-8830                | 0.63      | 0.37      | 1.73      |
| 338       | Solid         | 141 | 44 | 12 700-17 400            | 0.76      | 0.24      | 3.20      |
| 407       | Solid         | 101 | 56 | 9840-14 600              | 0.64      | 0.36      | 1.80      |

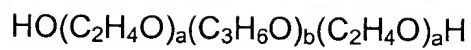


FIGURE 7



Effects of Celluloses on Dissolution of 1/1 Vitamin E TP GS/TPI-336-Na at Room Temperature

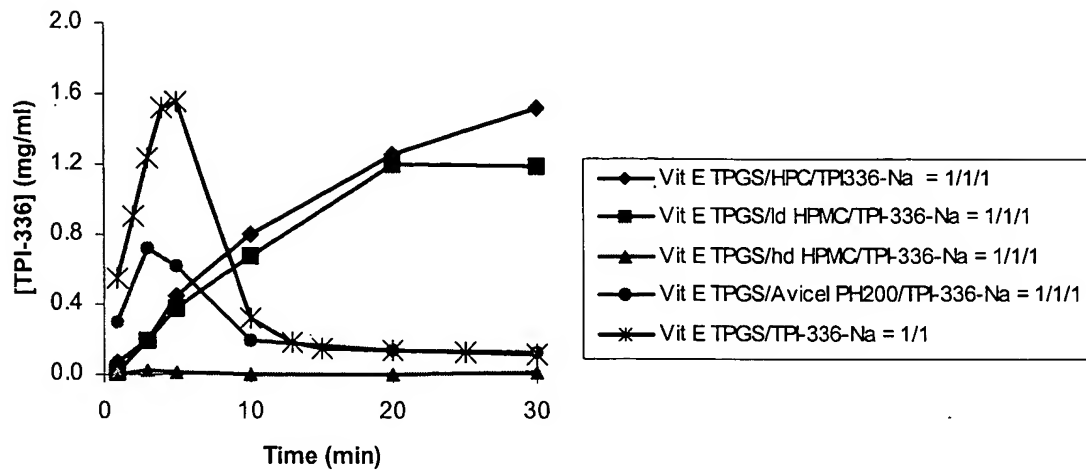


FIGURE 8

Dissolution Test at 37C for Various Ratio of Vitamin E TP GS : HP-Cellulose : TPI336 Na

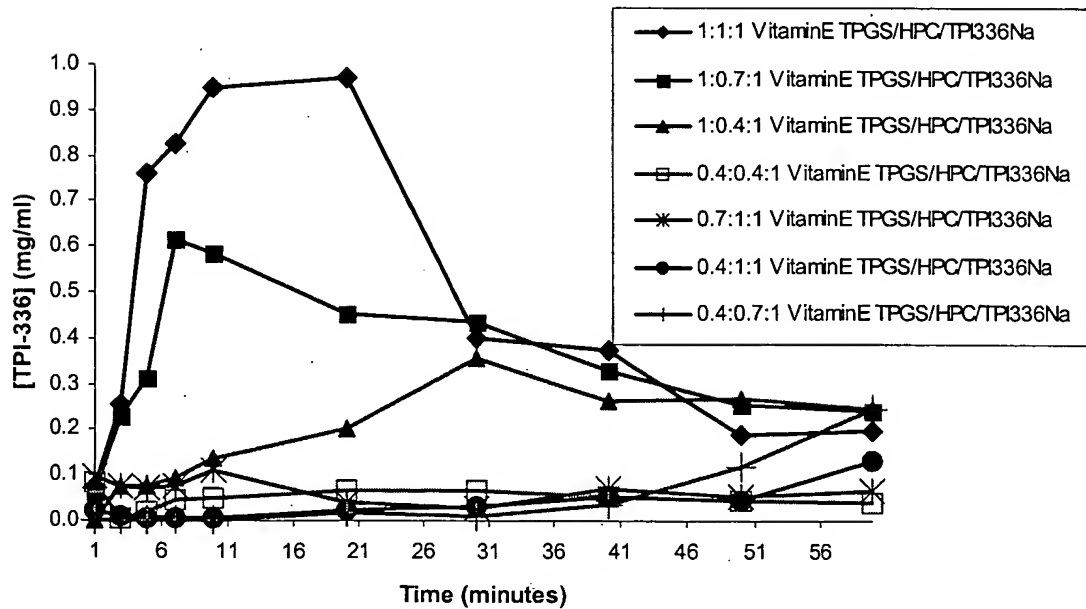


FIGURE 9

Dissolution profile of TPI-336-Na in SGF from solid mixtures with excipients at room temperature

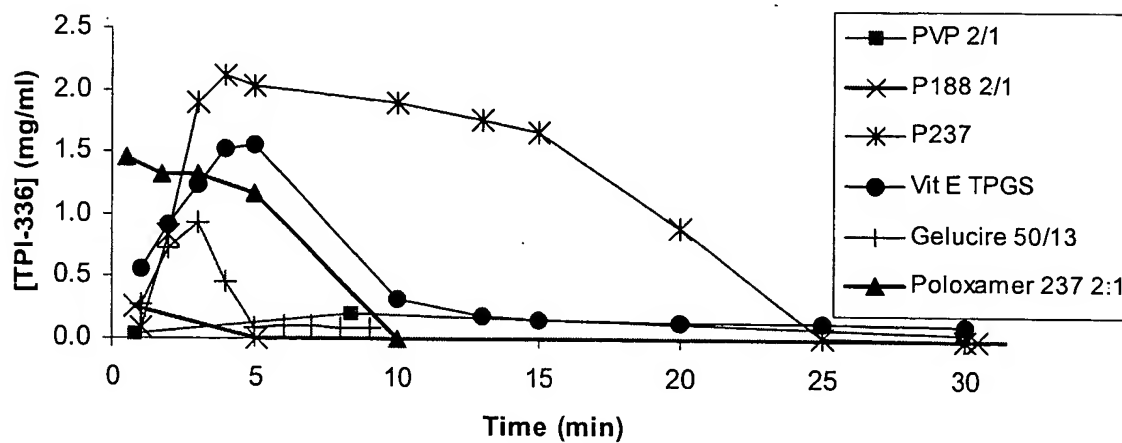


FIGURE 10

Effect of Avicel and Silica Gel on the dissolution of TPI336Na/Vit E TPGS/HPC mixtures in SGF at 37C

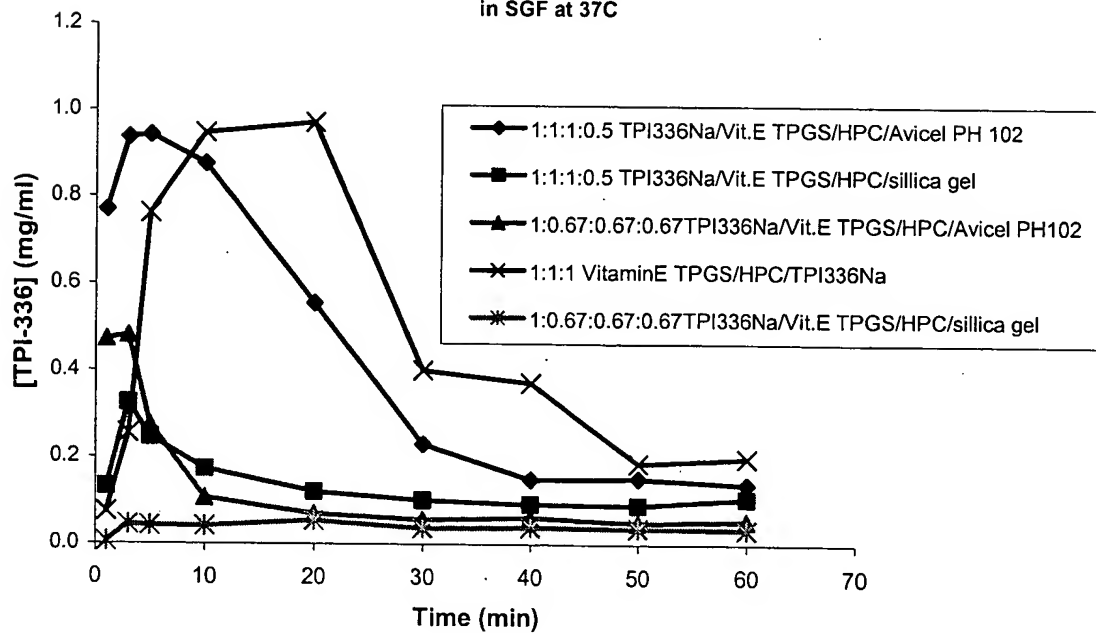


FIGURE 11

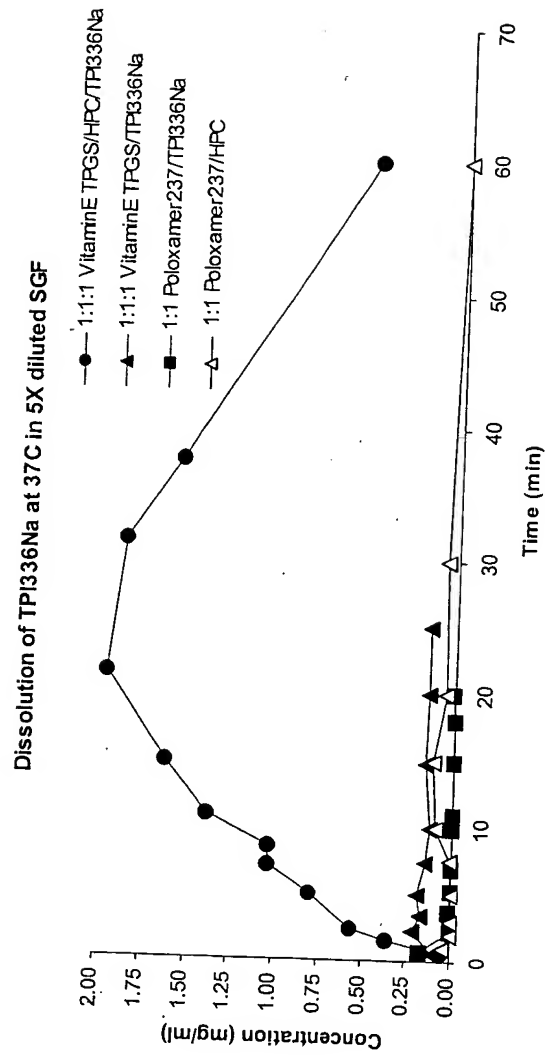


FIGURE 12

FIGURE 13A

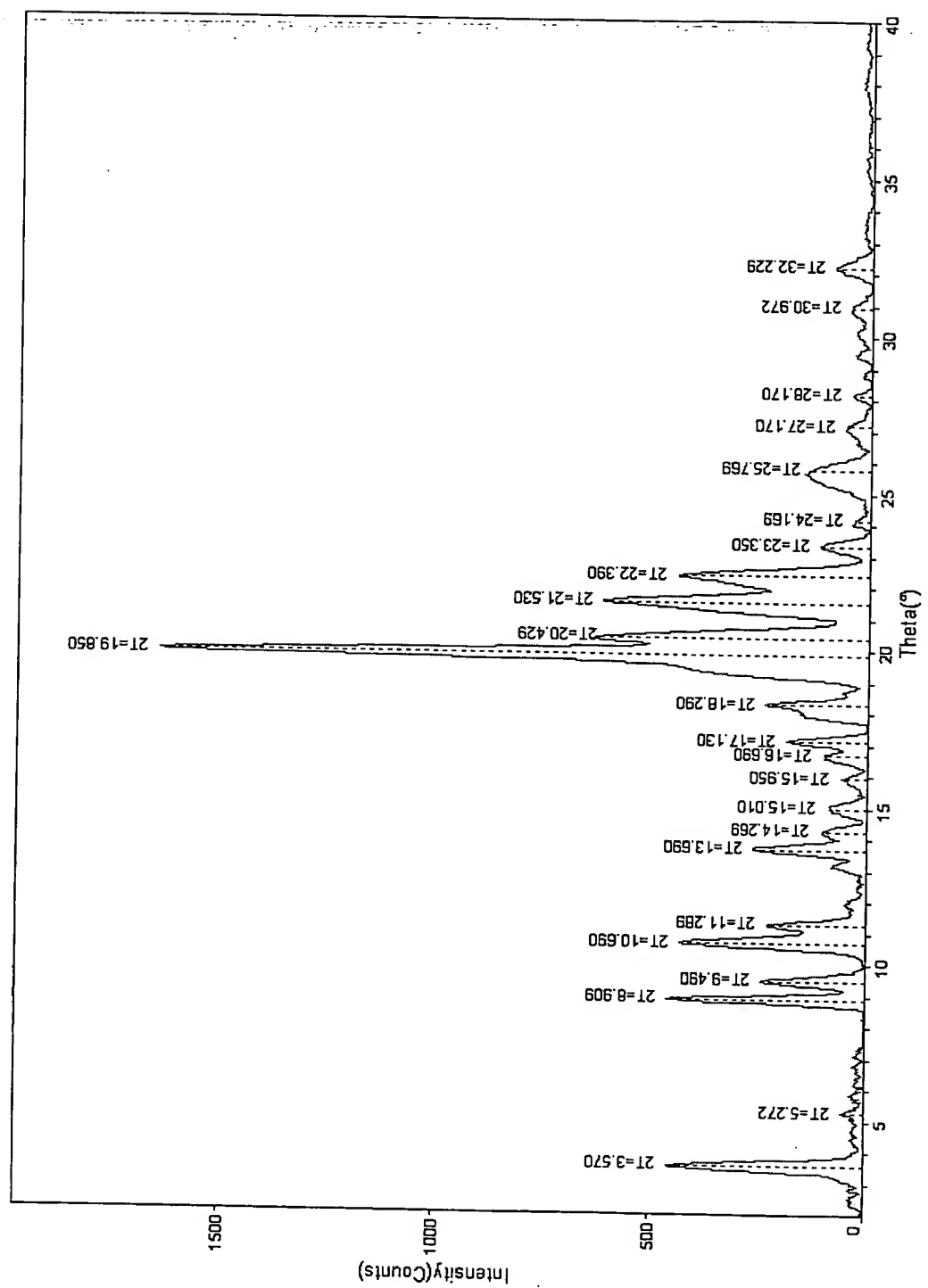
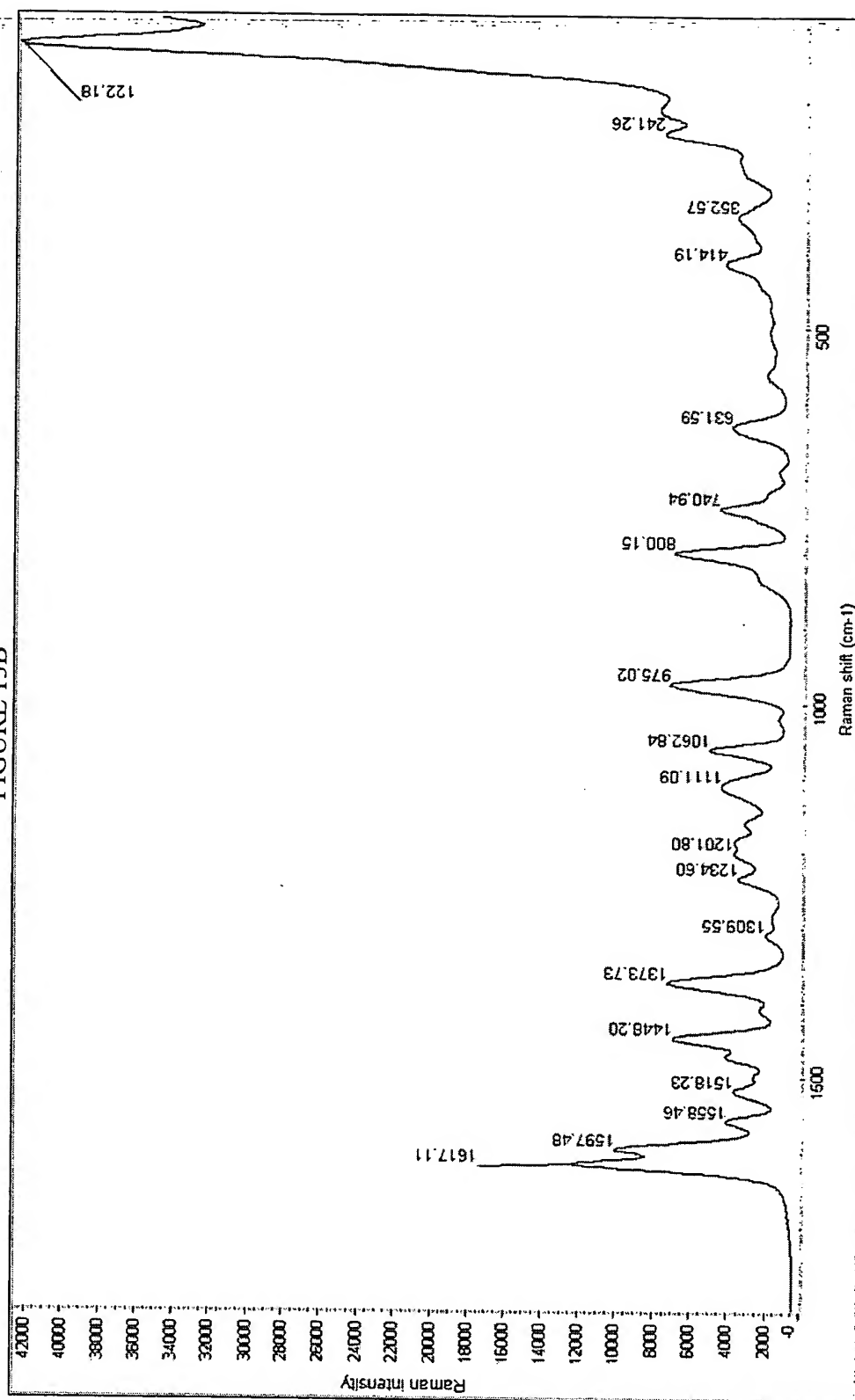


FIGURE 13B



File: \\...mo-116-49b\_celcecoxib-HOH\_inN2.001  
Operator: MAO  
Run Date: 06-Dec-02 11:28

DSC

Sample: mo-116-49b-celcecoxib-LJOH  
Size: 1.5600 mg  
Method: Ramp

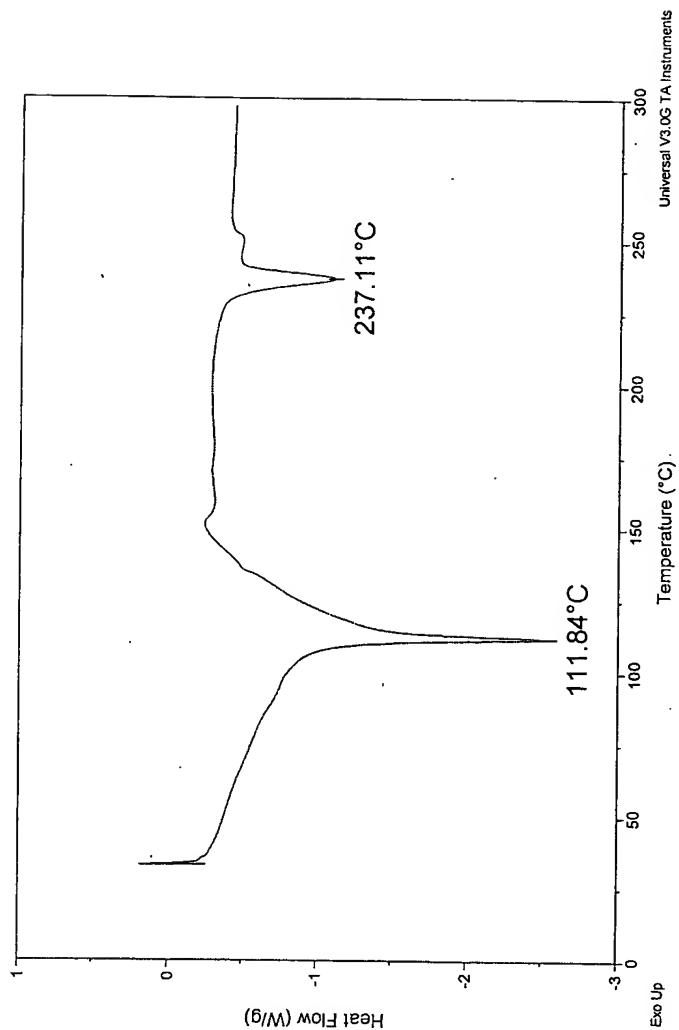


FIGURE 14

Sample: MO-116-49b\_celecoxib-Li  
Size: 8.2290 mg  
Method: Ramp

TGA

File: \\...MarkOlmo-116-49b\_celecoxib-Li.001  
Operator: MAO  
Run Date: 06-Dec-02 16:36

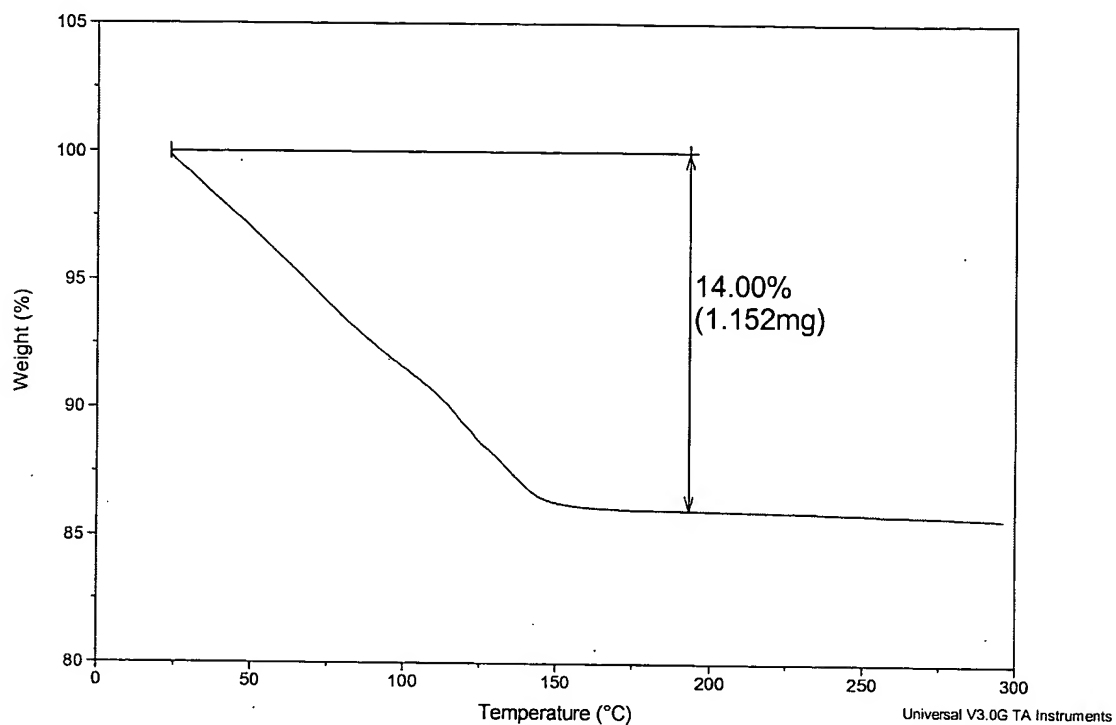


FIGURE 15

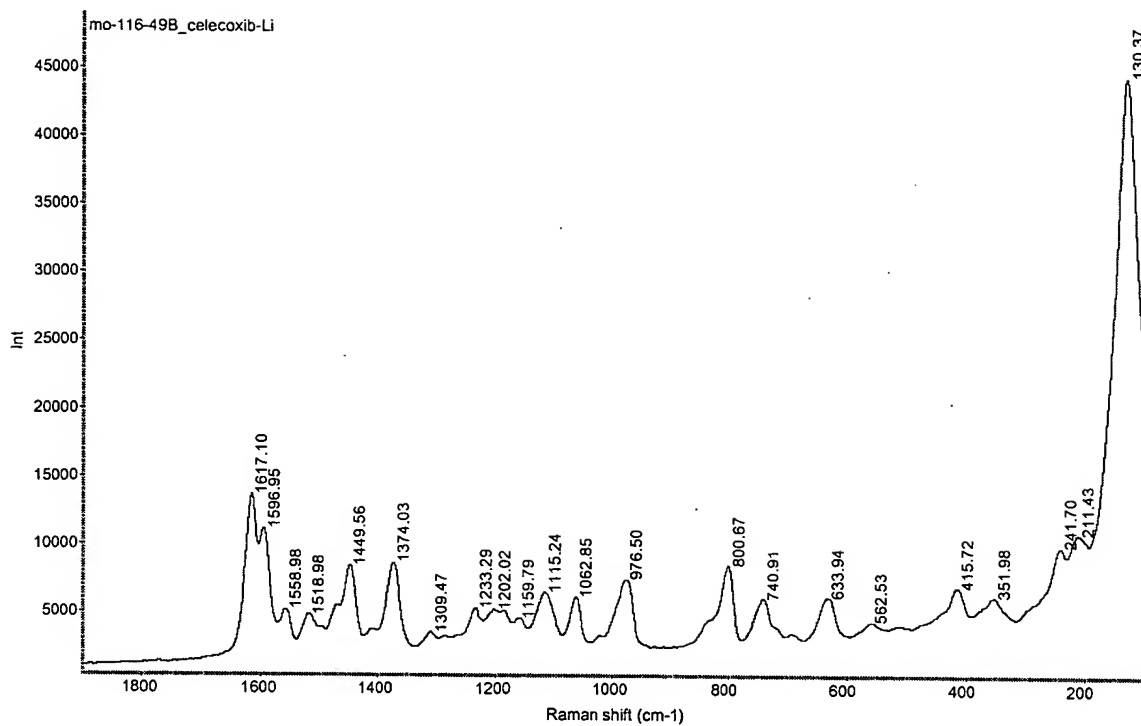


FIGURE 16

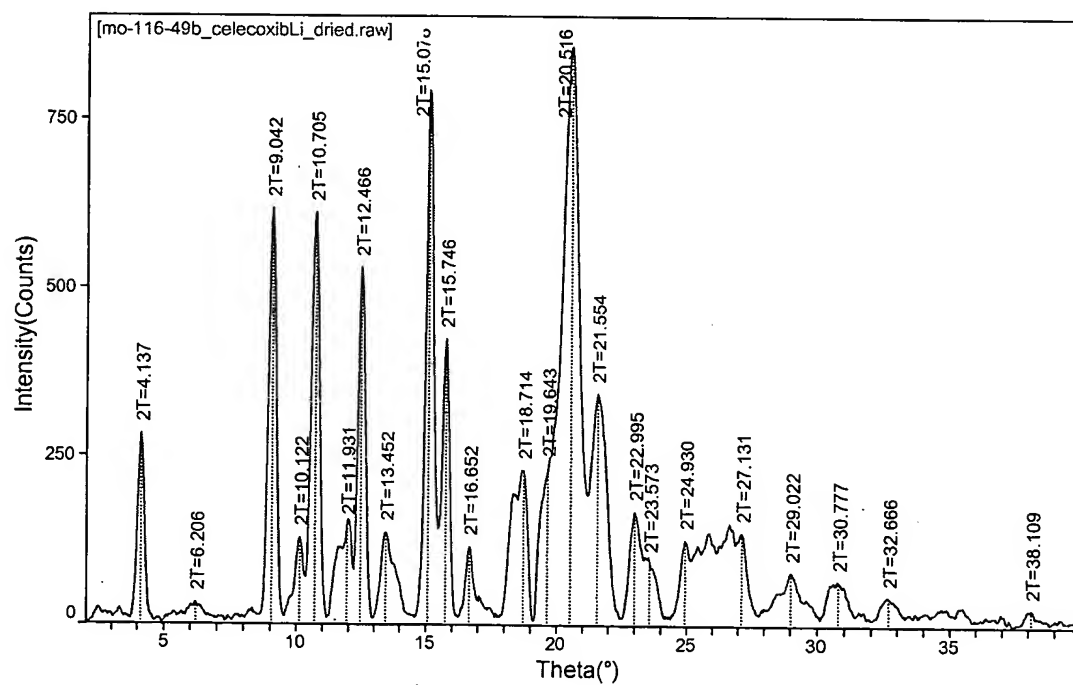


FIGURE 17



Sample: m0-116-49a-celecoxib-KOH  
Size: 1.1190 mg  
Method: Ramp

DSC

File: \\...m0-116-49a\_celecoxib-KOH\_inN2.001  
Operator: MAO  
Run Date: 06-Dec-02 10:55

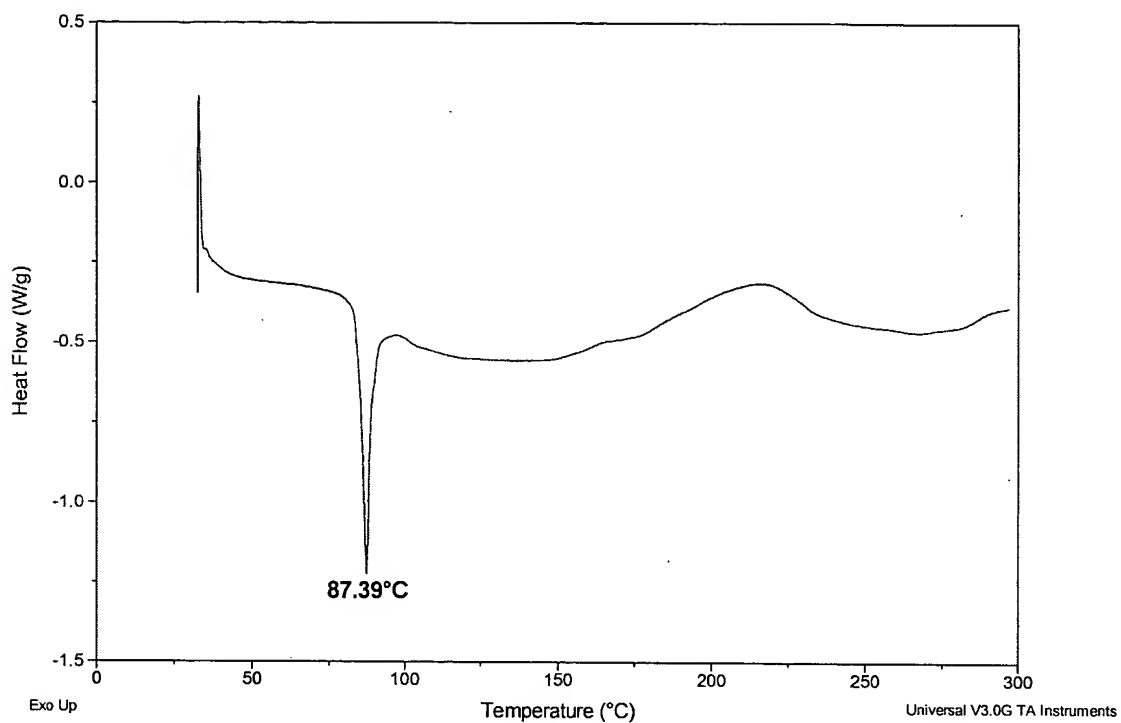


FIGURE 18

Sample: MO-116-49a\_celecoxib-K  
Size: 5.9890 mg  
Method: Stepwise isothermal

TGA

File: \\...MarkOlmo-116-49a\_celecoxib-K.001  
Operator: MAO  
Run Date: 06-Dec-02 11:35

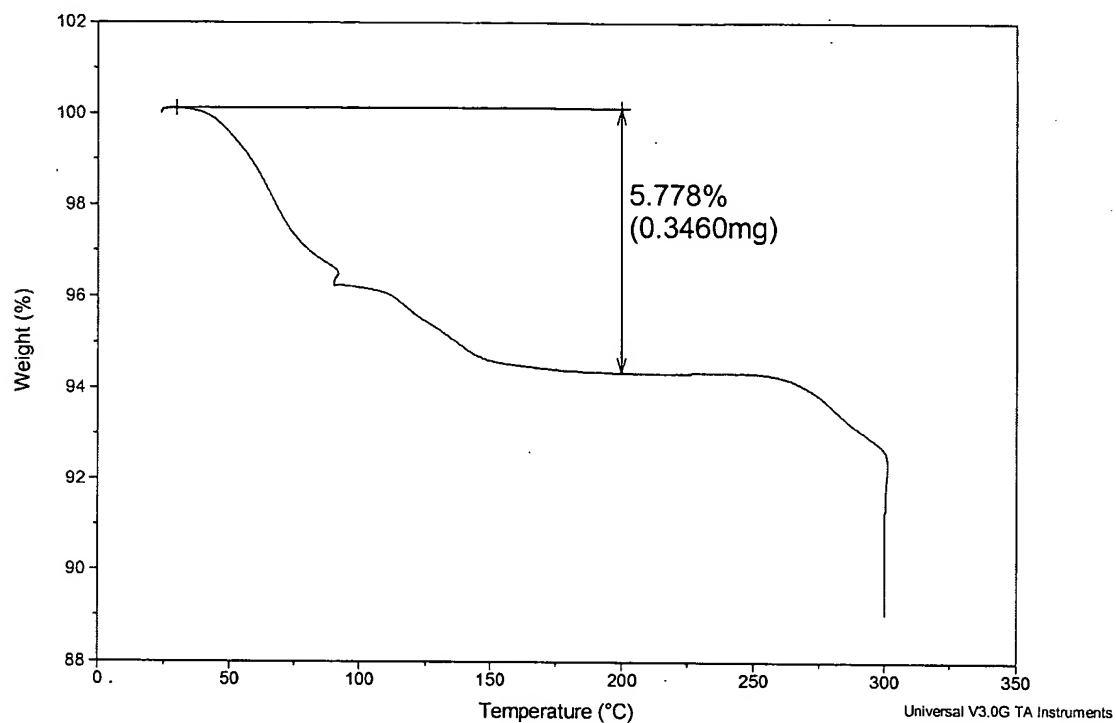


FIGURE 19

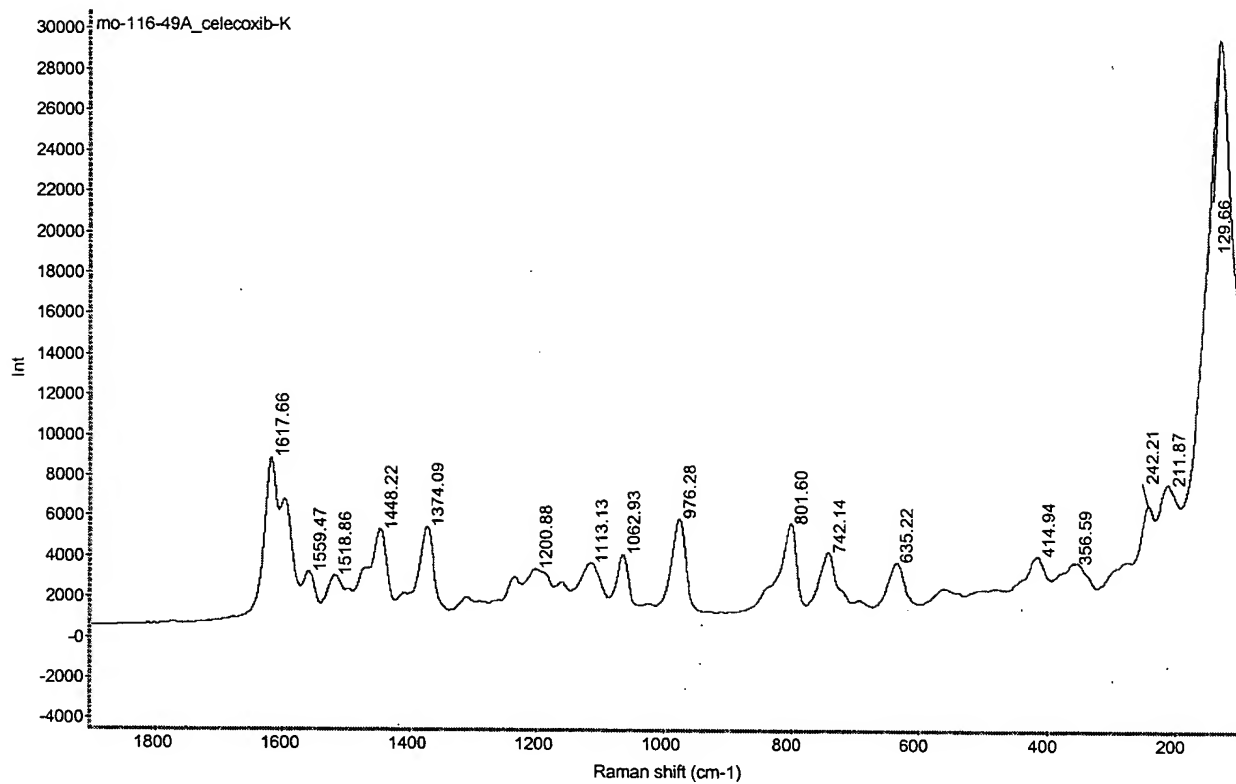


FIGURE 20

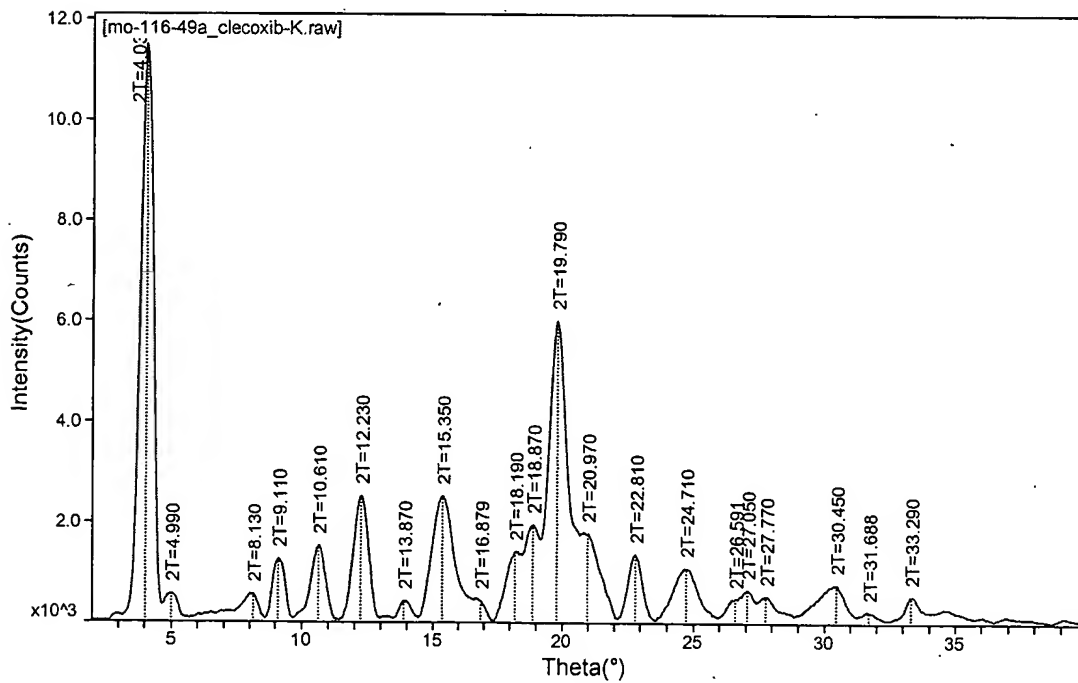


FIGURE 21

Sample: MO-116-55D\_celecoxib-K

Size: 5.4470 mg

Method: Ramp

Comment: Residue from bottom phase, dried in nitrogen for 2 days

TGA

File: mo-116-55D\_celecoxibK\_bottom phase re...

Operator: MAO

Run Date: 13-Dec-02 11:50

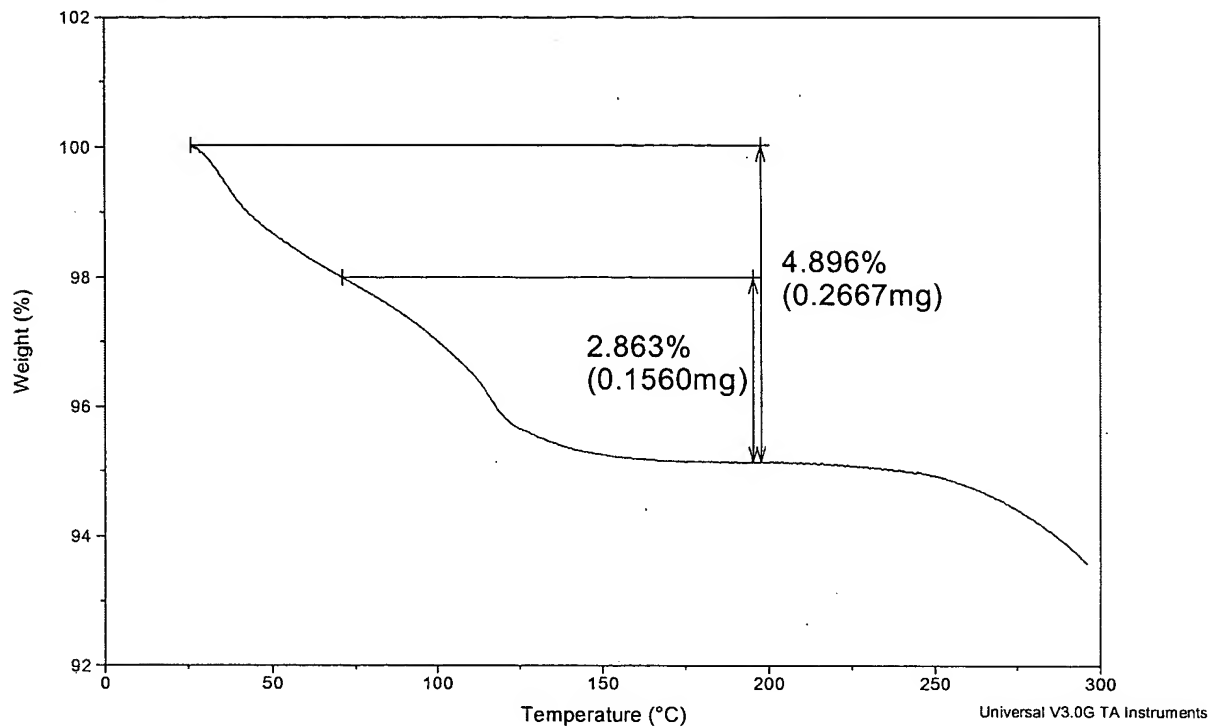


FIGURE 22

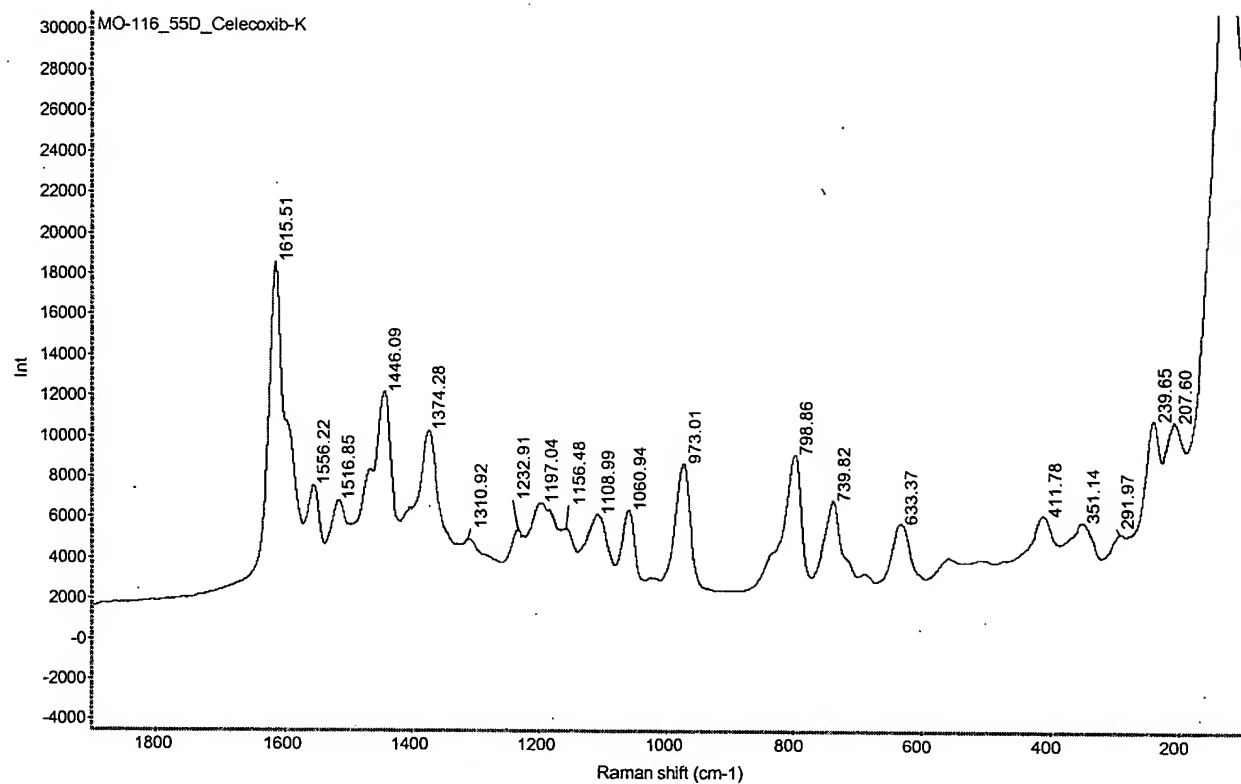


FIGURE 23

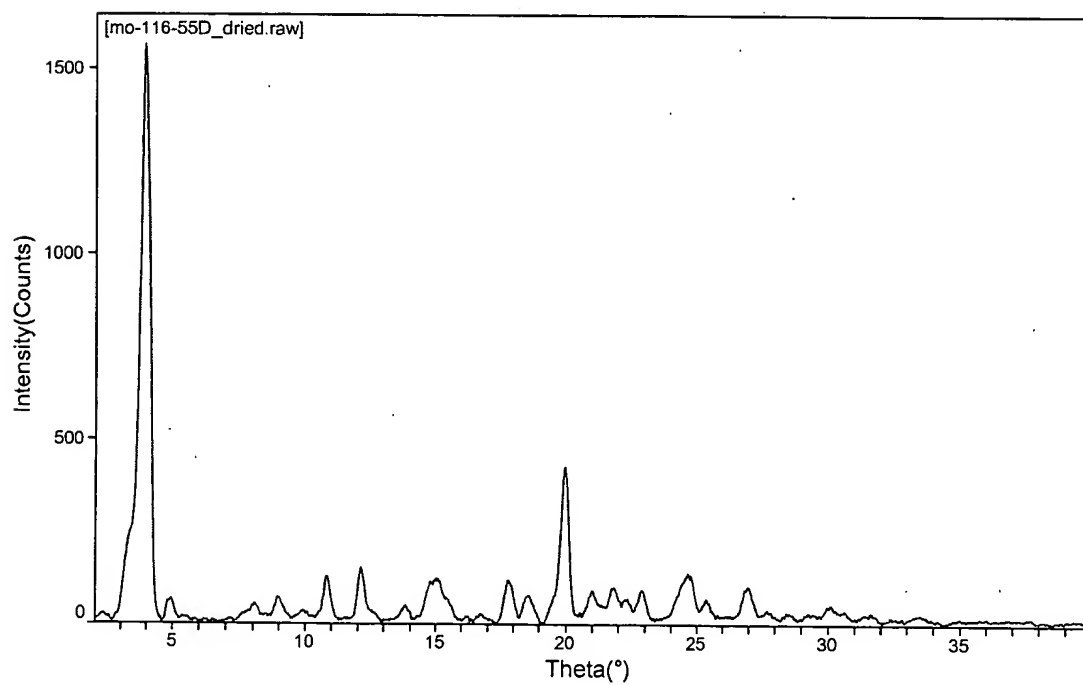


FIGURE 24

Sample: celecoxib-Ca\_dried  
Size: 3.4140 mg  
Method: Ramp  
Comment: dried in N2 overnight

# TGA

File: V:\...mo-11-62A\_celecoxib-Ca.003  
Operator: MAO  
Run Date: 18-Dec-02 11:26

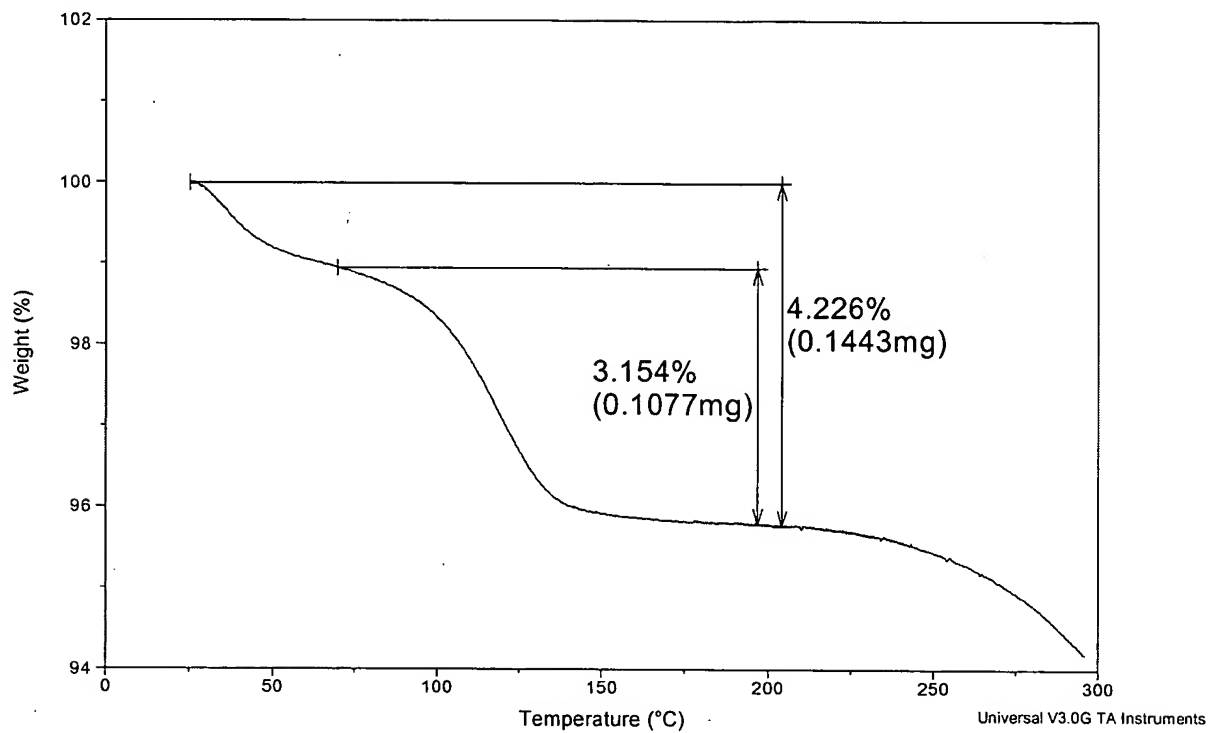


FIGURE 25

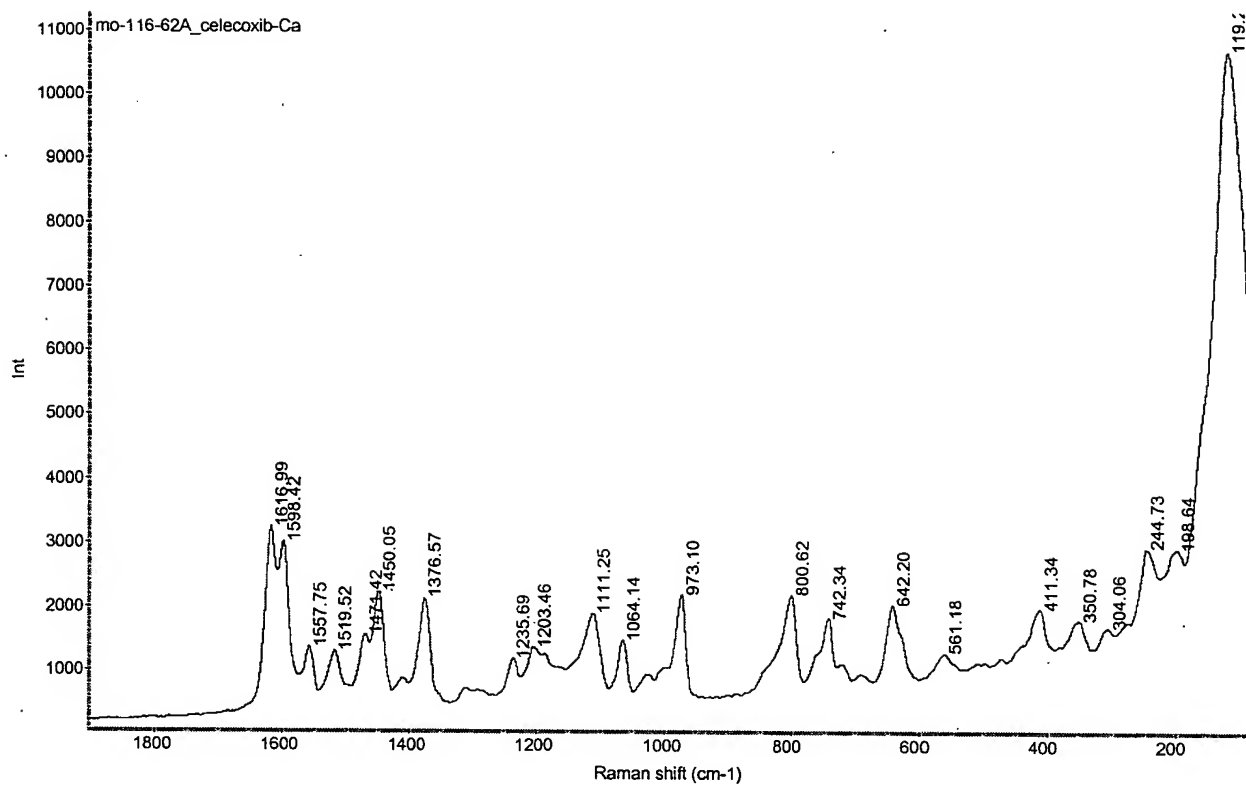


FIGURE 26

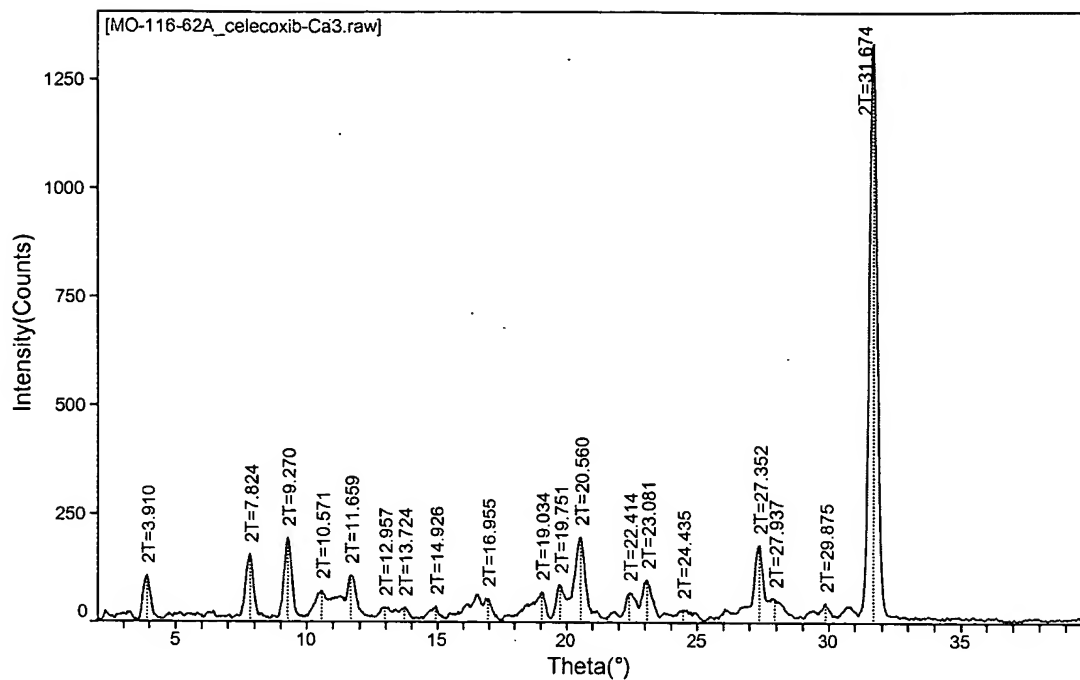


FIGURE 27

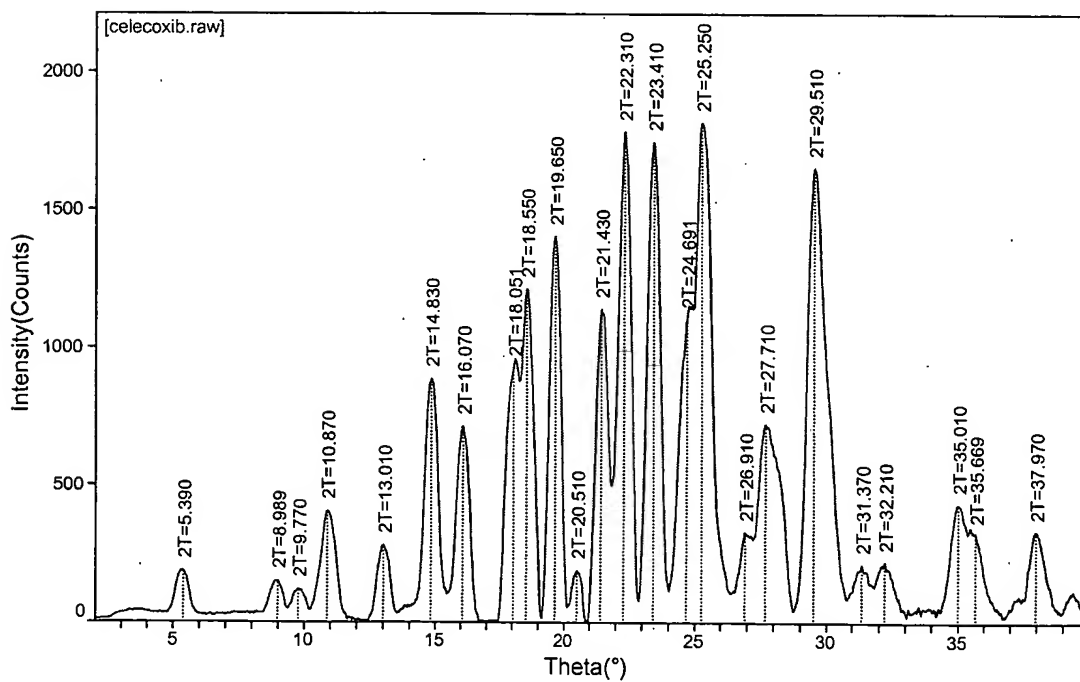


FIGURE 28



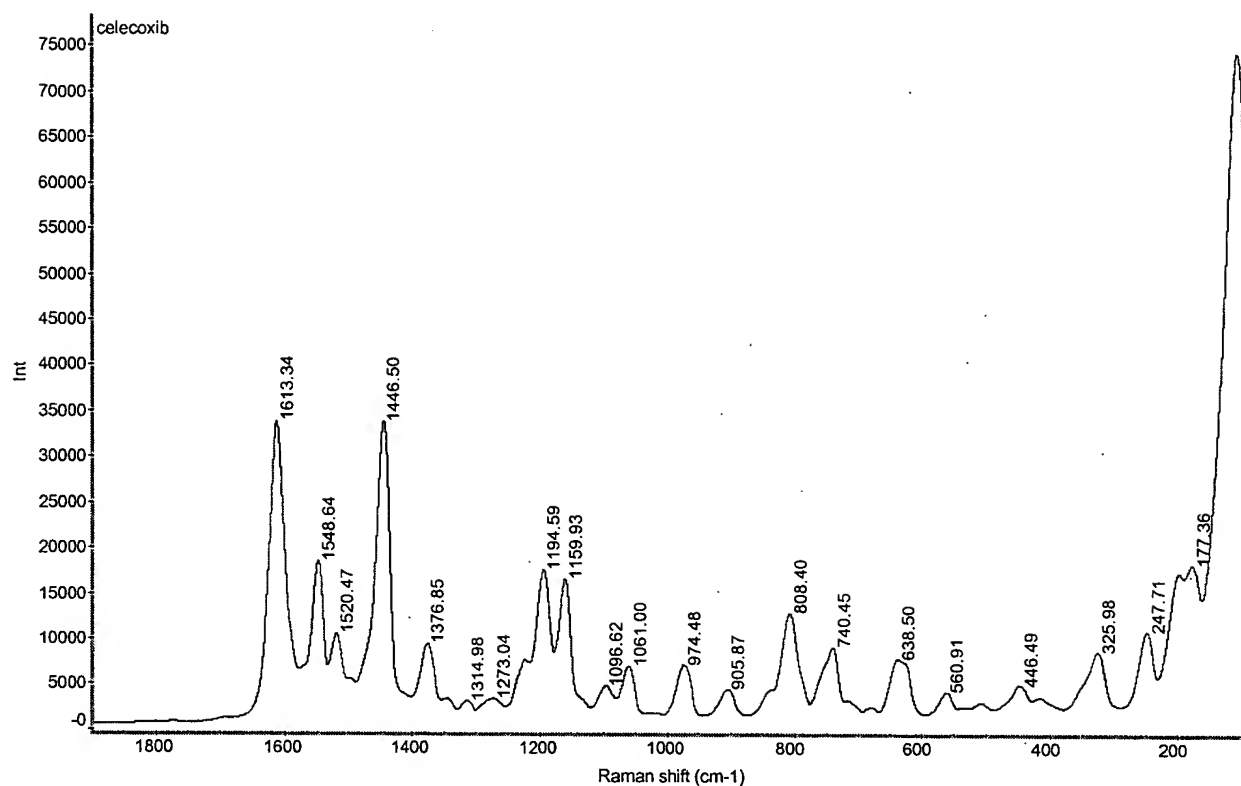
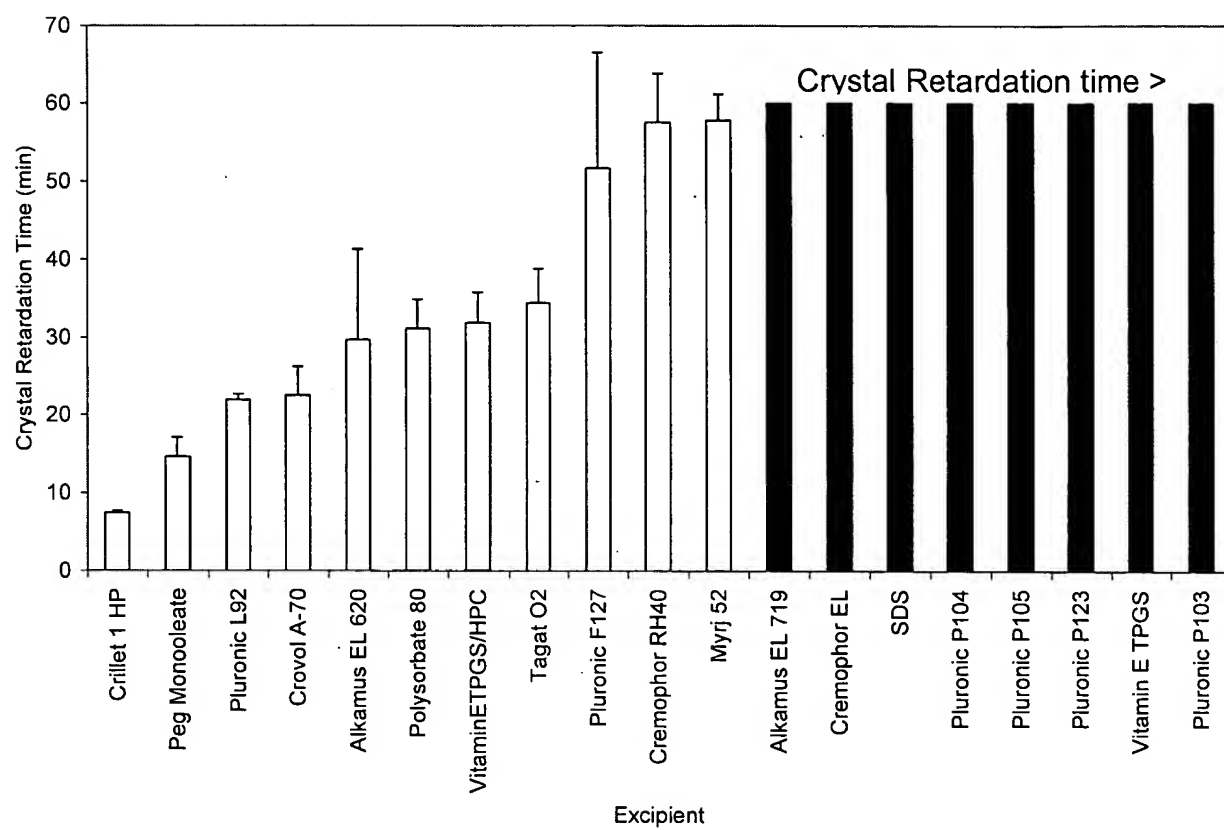
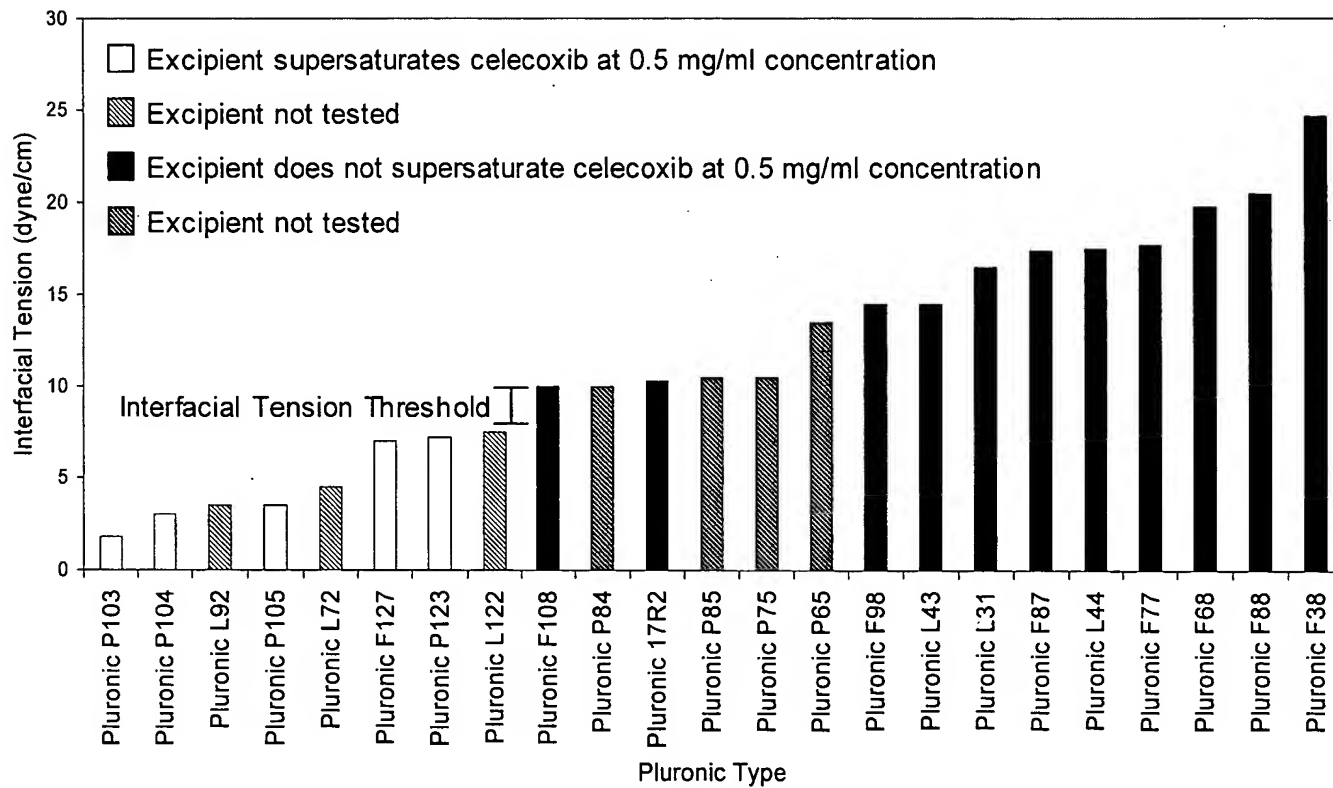


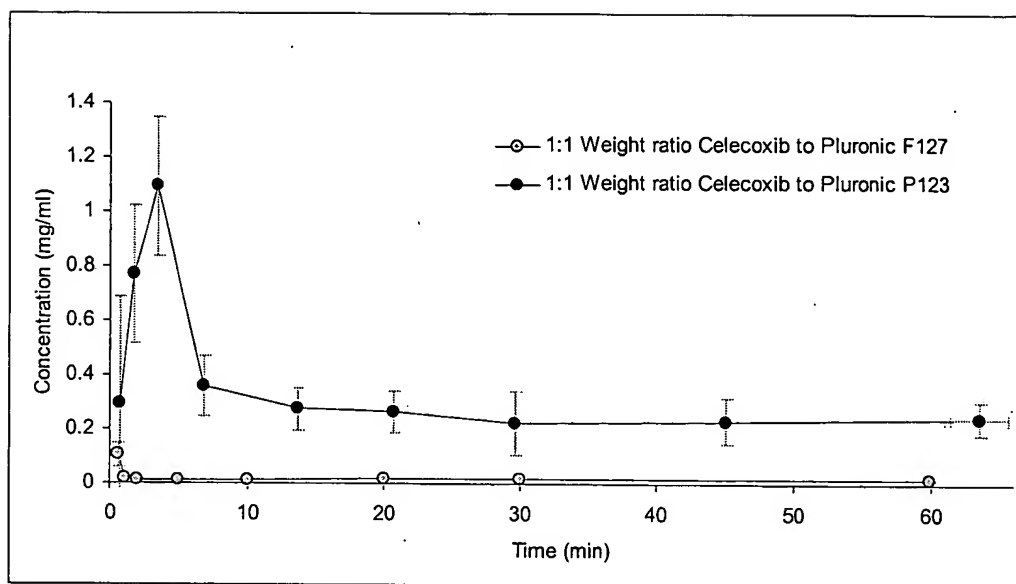
FIGURE 29



**FIGURE 30**



**Figure 31**



**Figure 32**

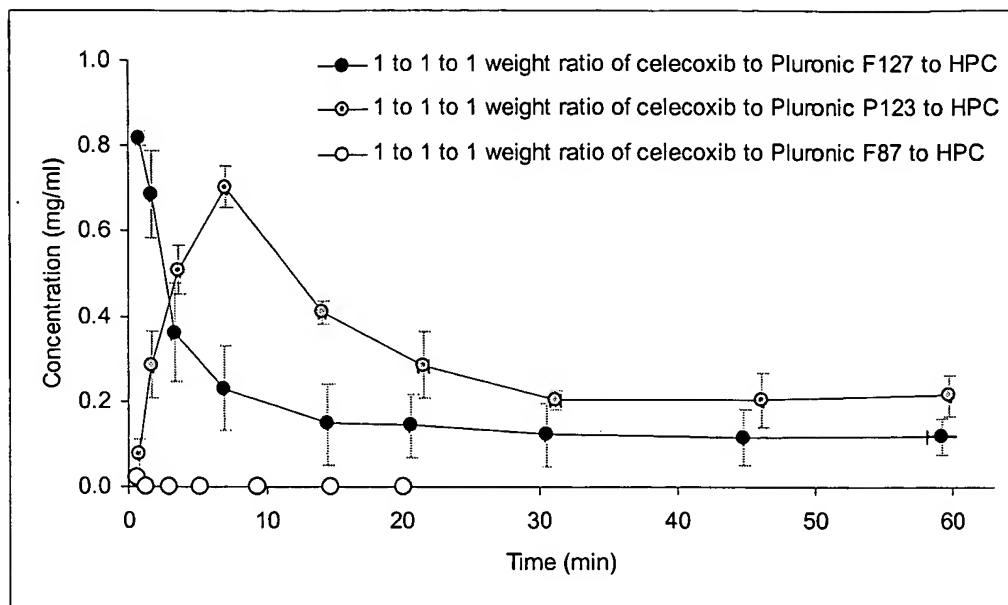
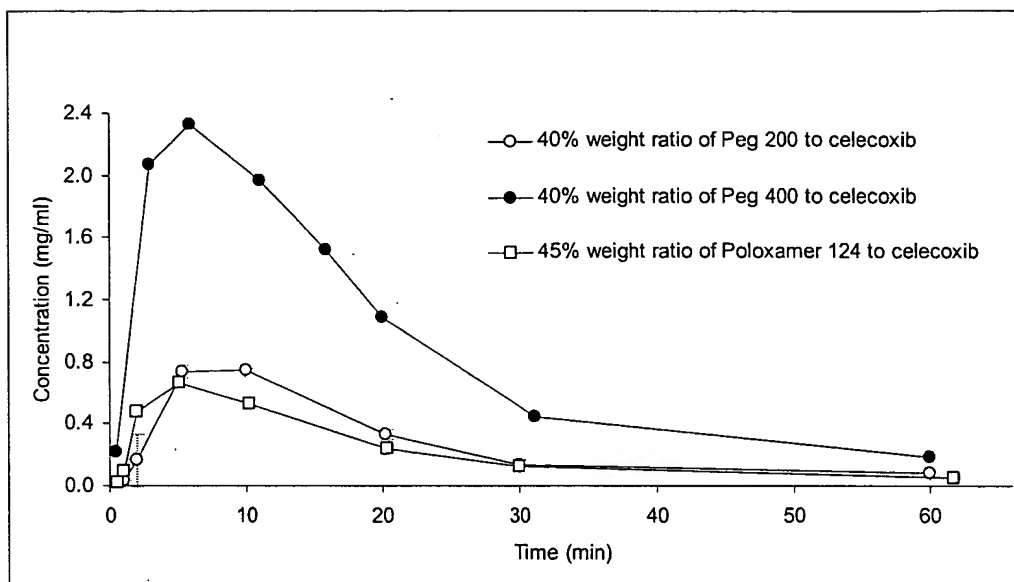
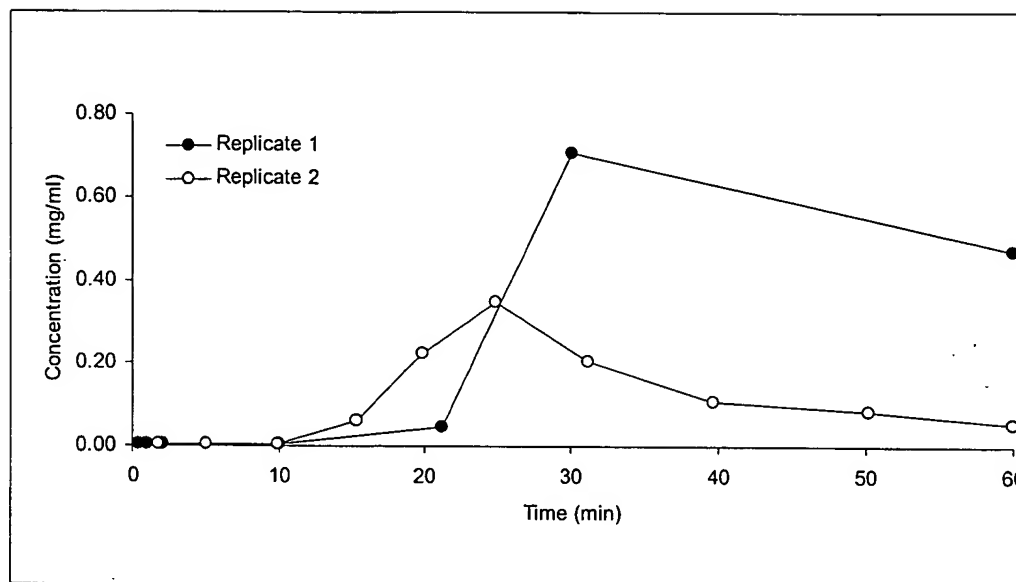


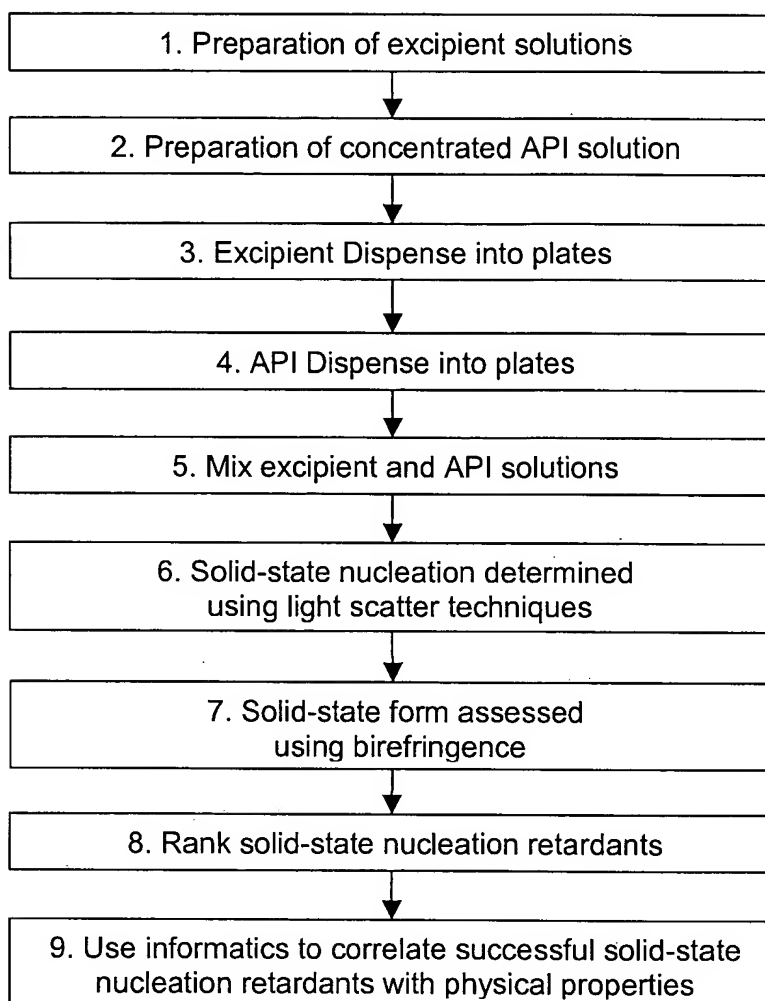
Figure 33



**Figure 34**

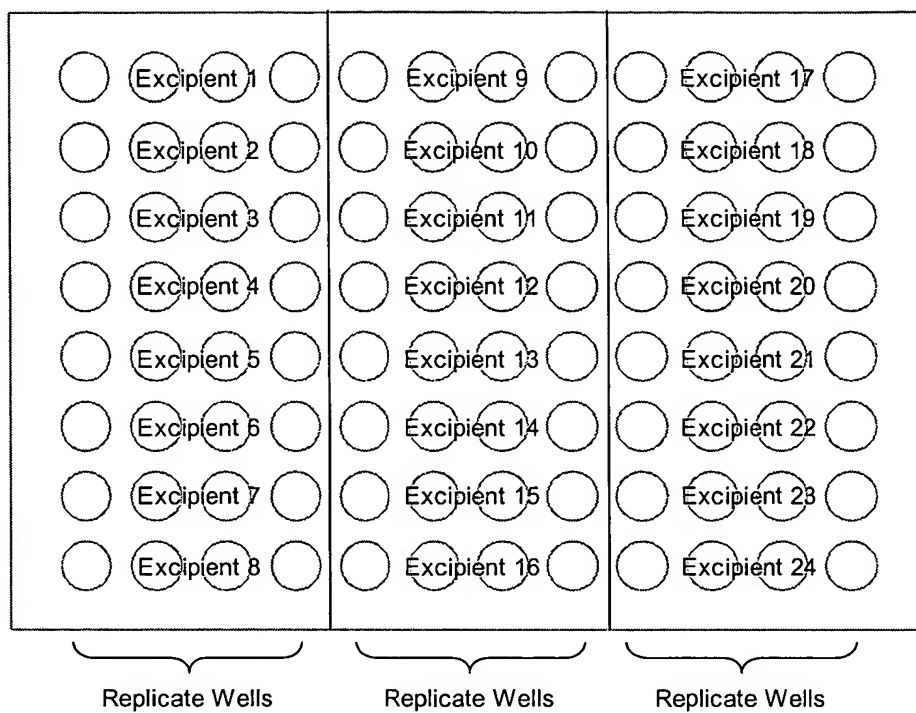


**Figure 35**

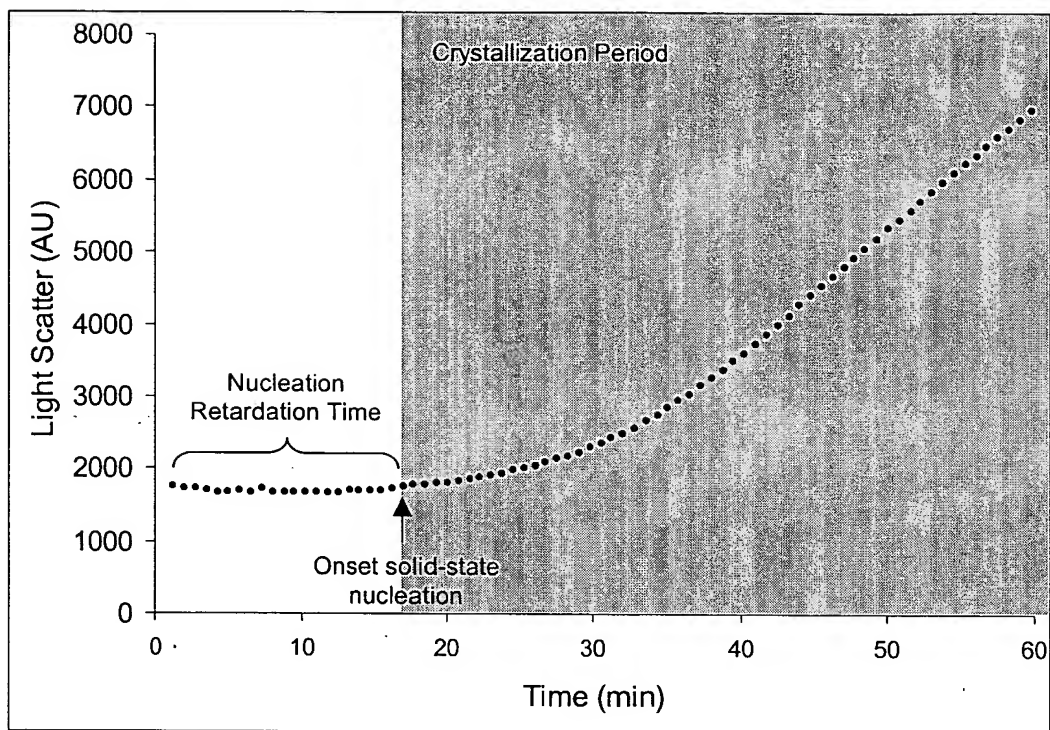


**Figure 36**





**Figure 37**



**Figure 38**

Sample: Celecoxib Na pg from Et2O  
Size: 3.0430 mg  
Method: Ramp

TGA

File: MT\_114\_118\_A; Celecoxib Na pg  
Operator: MDT  
Run Date: 26-Nov-02 19:30  
Instrument: TGA Q500 V4.7 Build 151

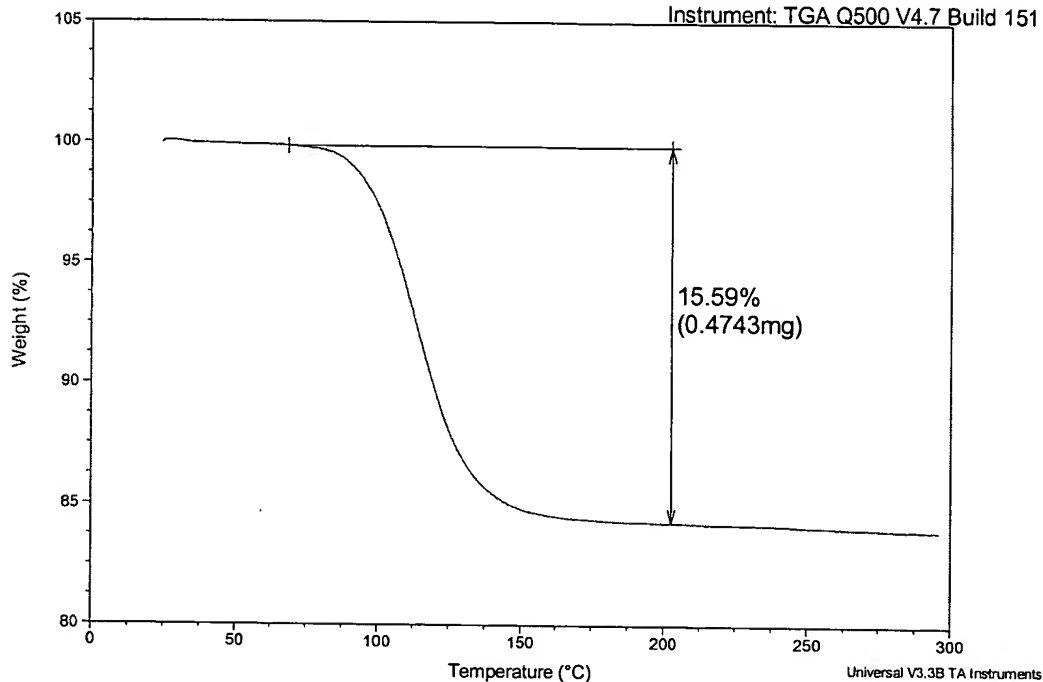


FIGURE 39

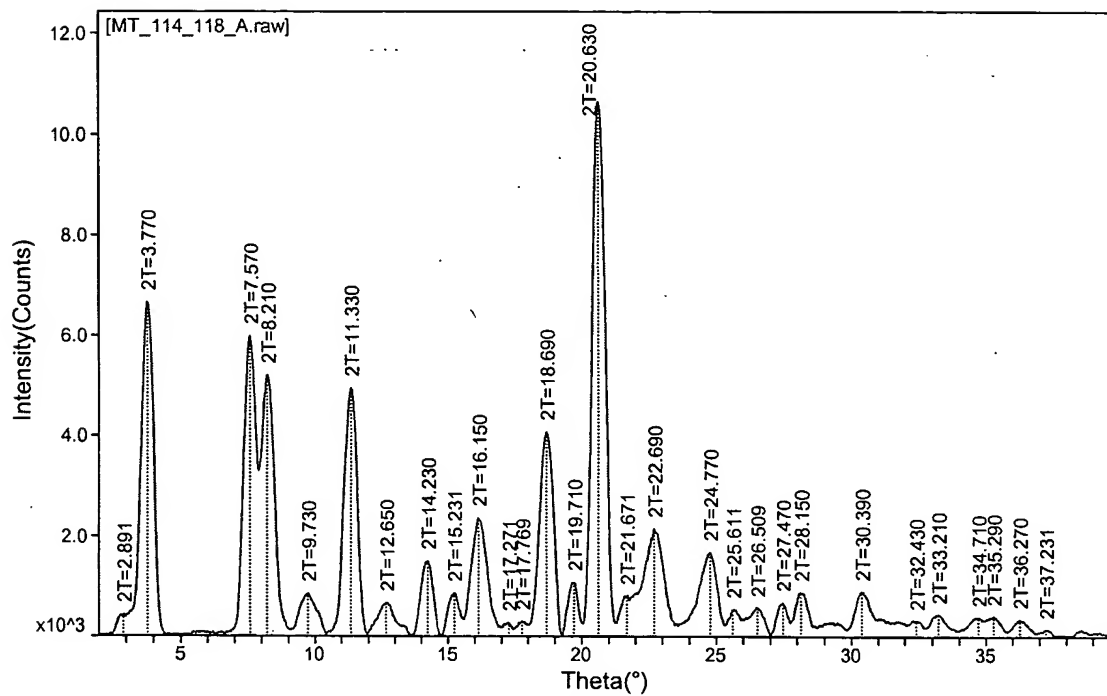


FIGURE 40

Sample: MT\_114\_139\_C; Celecoxib K pg  
 Size: 5.5520 mg  
 Method: Ramp  
 Comment: from Et2O

TGA

File: \\\ITA\Data\TGA\MTawa\MT\_114\_139\_C.001  
 Operator: MDT  
 Run Date: 20-Dec-02 14:19  
 Instrument: TGA Q500 V4.7 Build 151

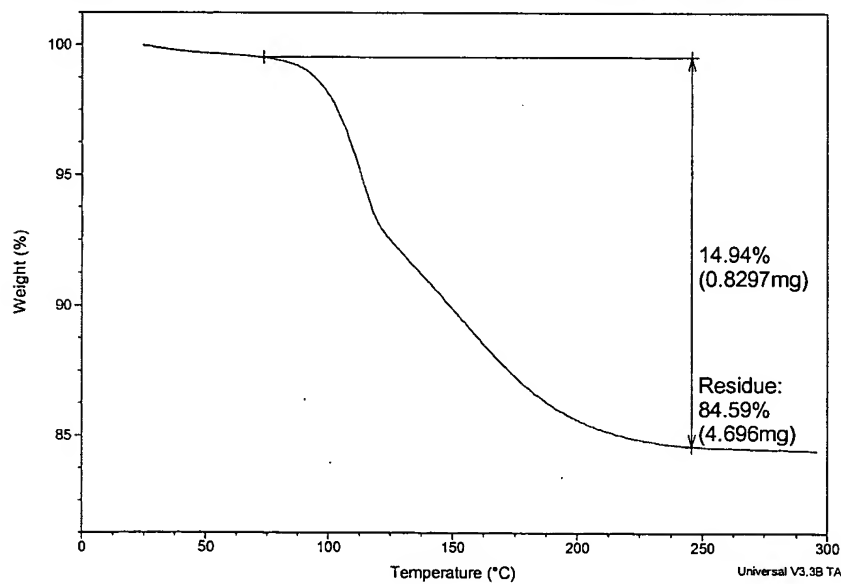


FIGURE 41

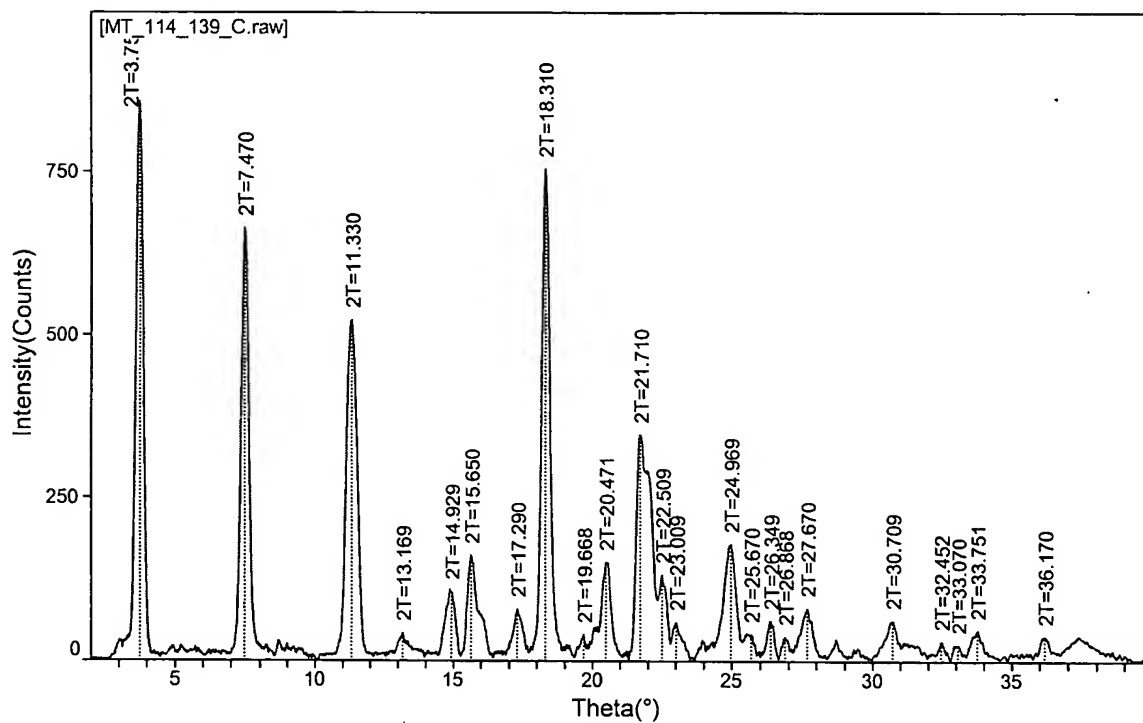


FIGURE 42

Sample: Celecoxib LI pg  
Size: 3.4520 mg  
Method: Ramp  
Comment: from Et2O with tBuLi

TGA

File: \\...\\TA\\Data\\TGAWTawa\\MT\_114\_141\_A.001  
Operator: MDT  
Run Date: 23-Dec-02 15:39  
Instrument: TGA Q500 V4.7 Build 151

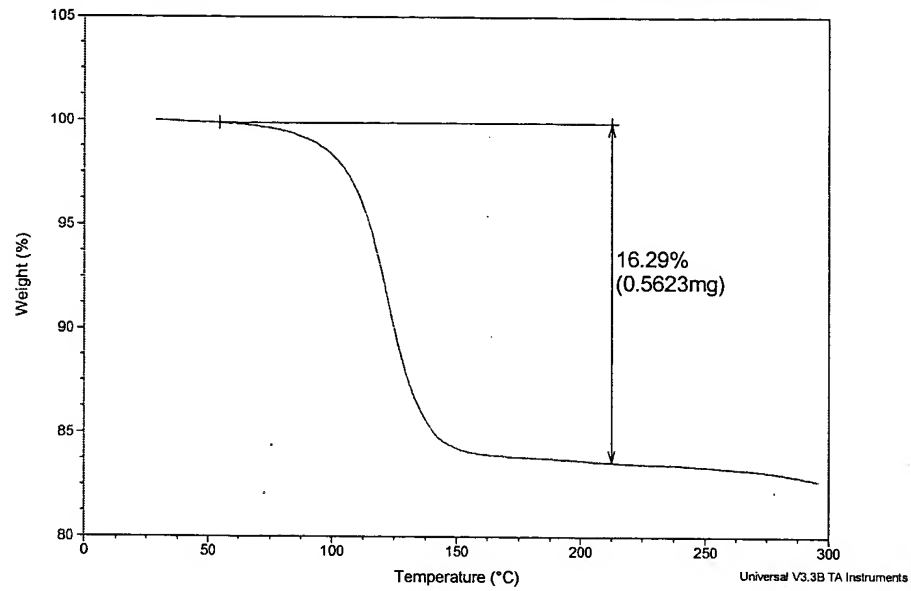


FIGURE 43

Sample: MT\_114\_120\_B  
Size: 2.1070 mg  
Method: Ramp  
Conc: CelNa PG at 25/60

File: \\...\\MT\_114\_120\_B; CelNaPG at 2  
Operator: MDT  
Run Date: 02-Dec-02 11:24  
Instrument: TGA Q500 V4.7 Build 151

# TGA

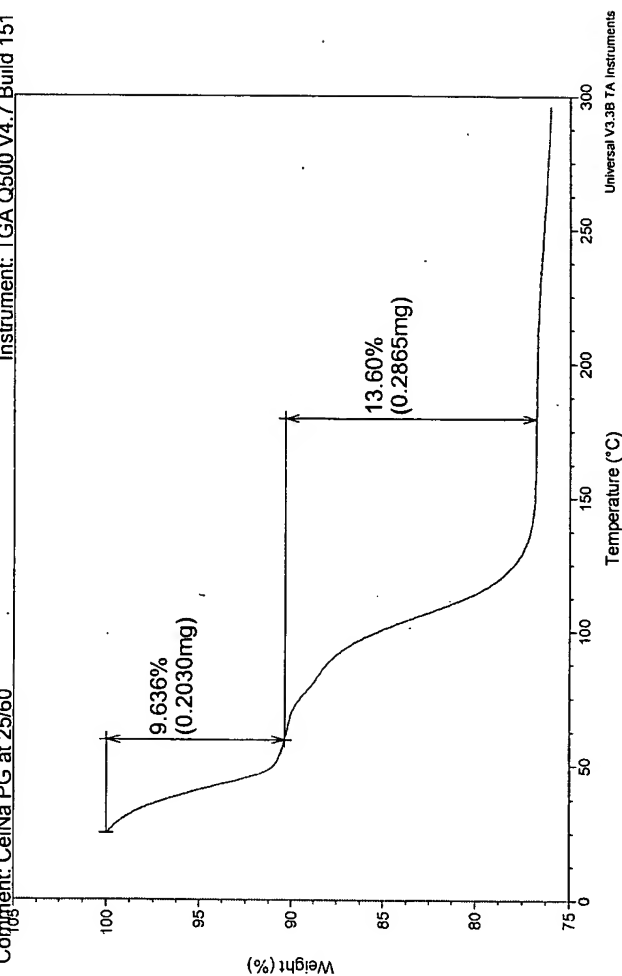


FIGURE 44

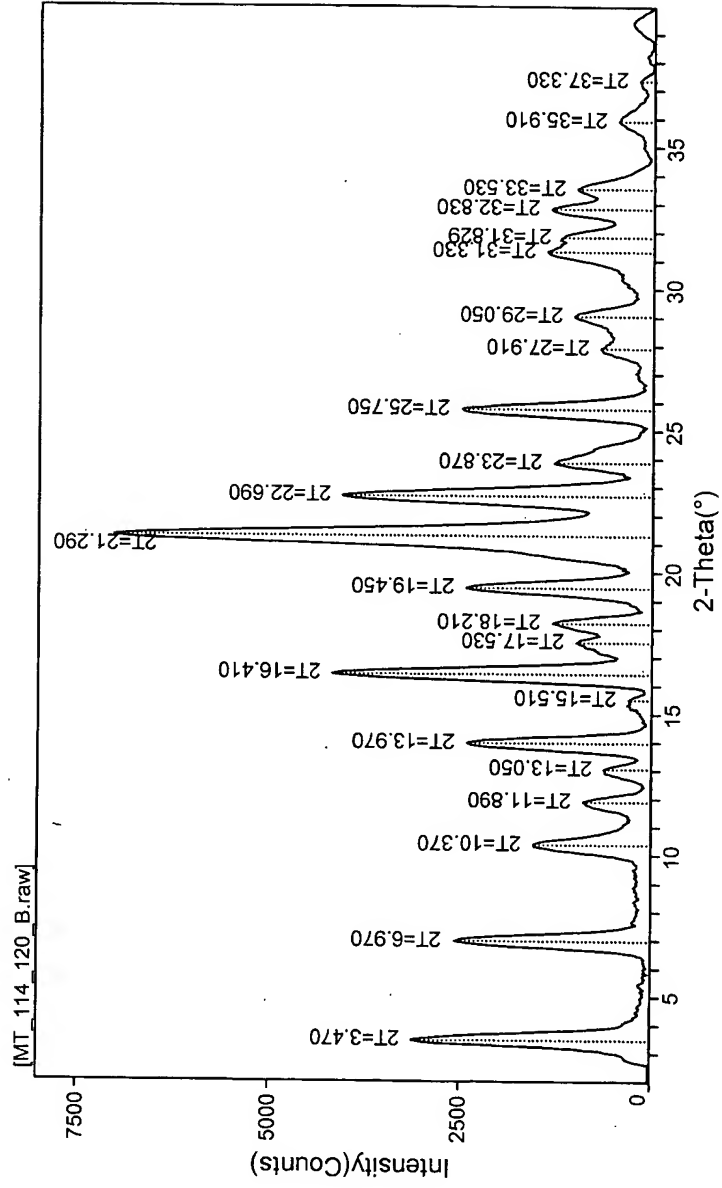


FIGURE 45



File: \... \MT\_143\_57\_A; Celecoxib Na PG.001  
Operator: MDT  
Run Date: 09-Apr-03 10:31  
Instrument: TGA Q500 V4.7 Build 151

Sample: Celecoxib Na PG  
Size: 1.3840 mg  
Method: Ramp  
Comment: xtalized with 4 eq of water

# TGA

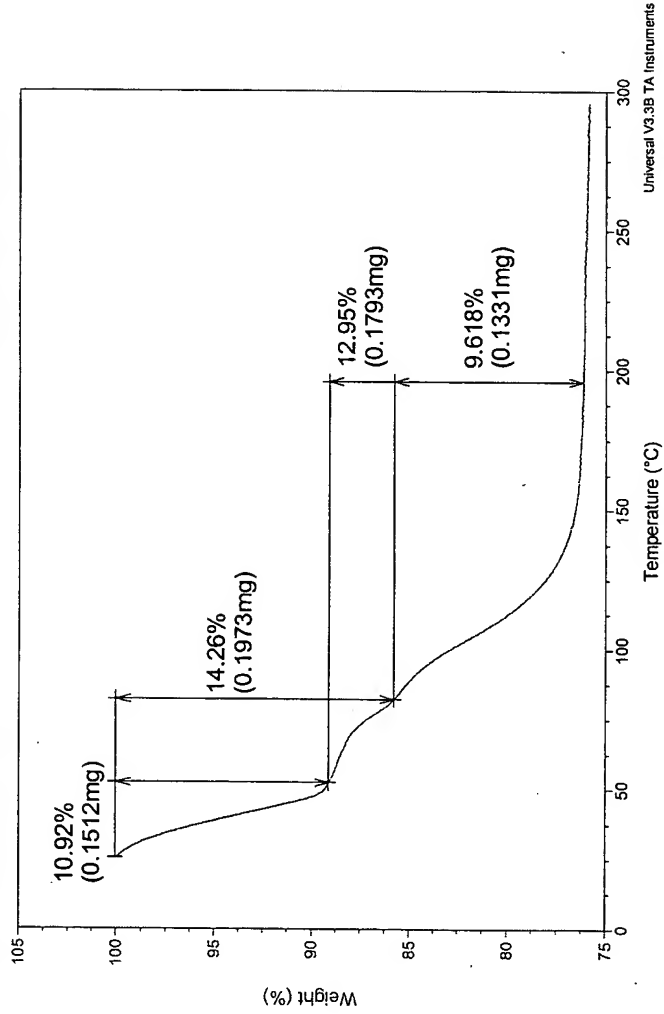


FIGURE 46

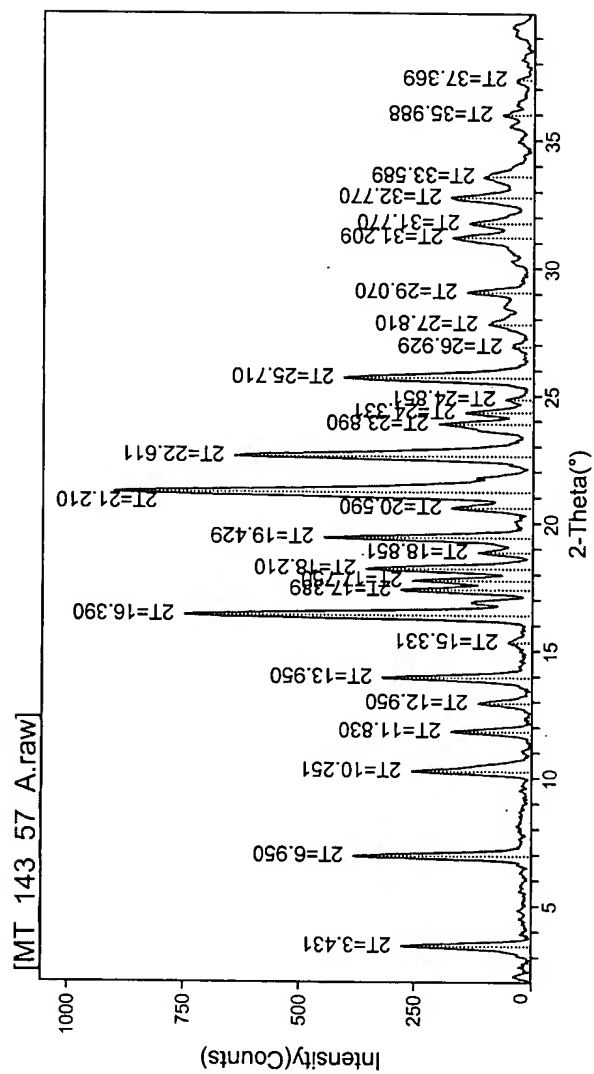


FIGURE 47

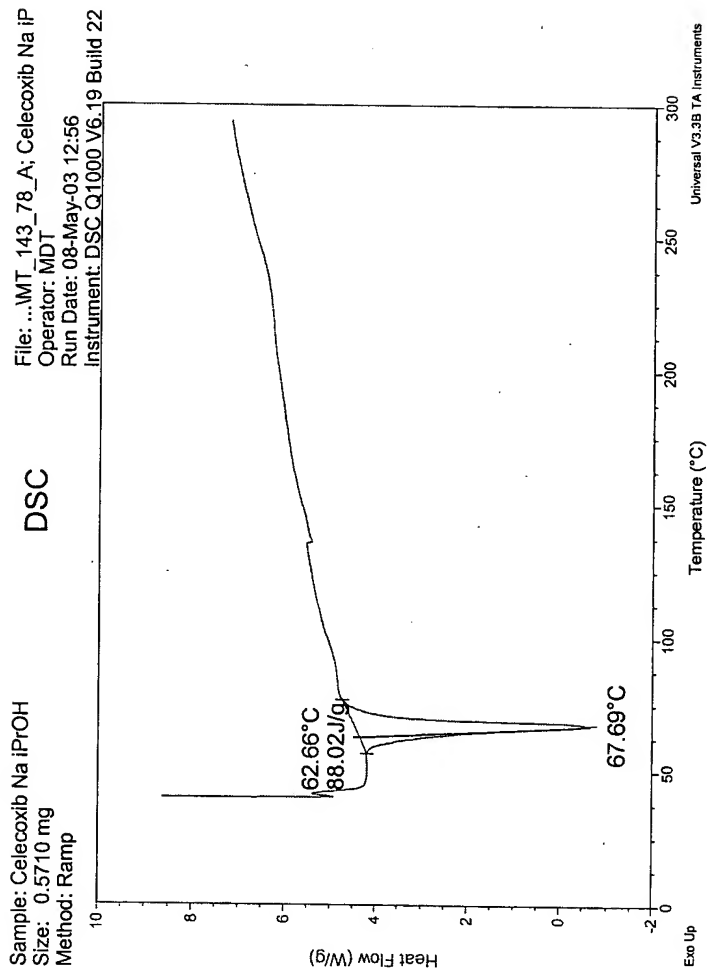


FIGURE 48

Sample: Celecoxib Na iPrOH  
Size: 1.8020 mg  
Method: Ramp  
Config: dried overnight in open vial

TGA

File: ...MT\_143\_78\_A2; Celecoxib Na i  
Operator: MDT  
Run Date: 09-May-03 07:43  
Instrument: TGA Q500 V4.7 Build 151

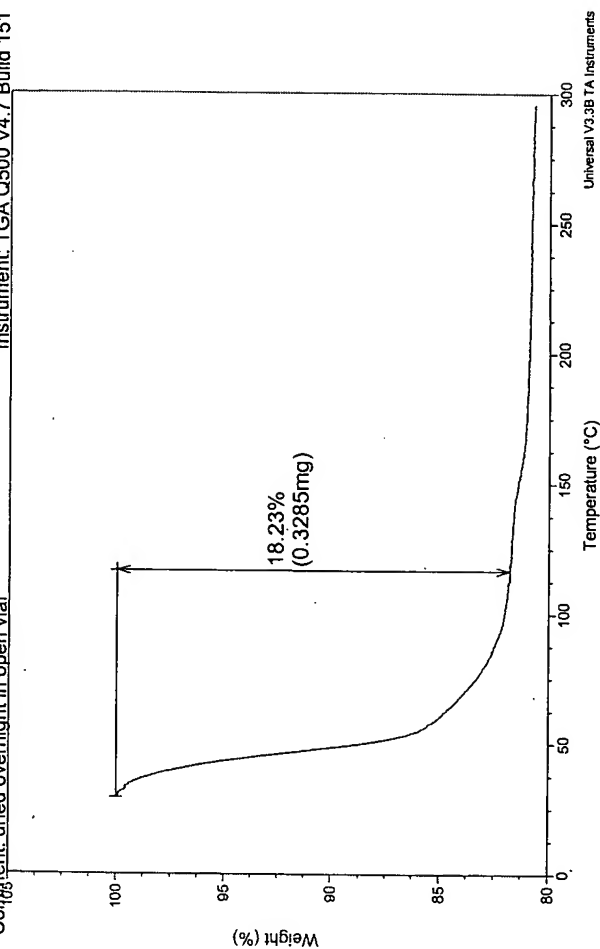


FIGURE 49

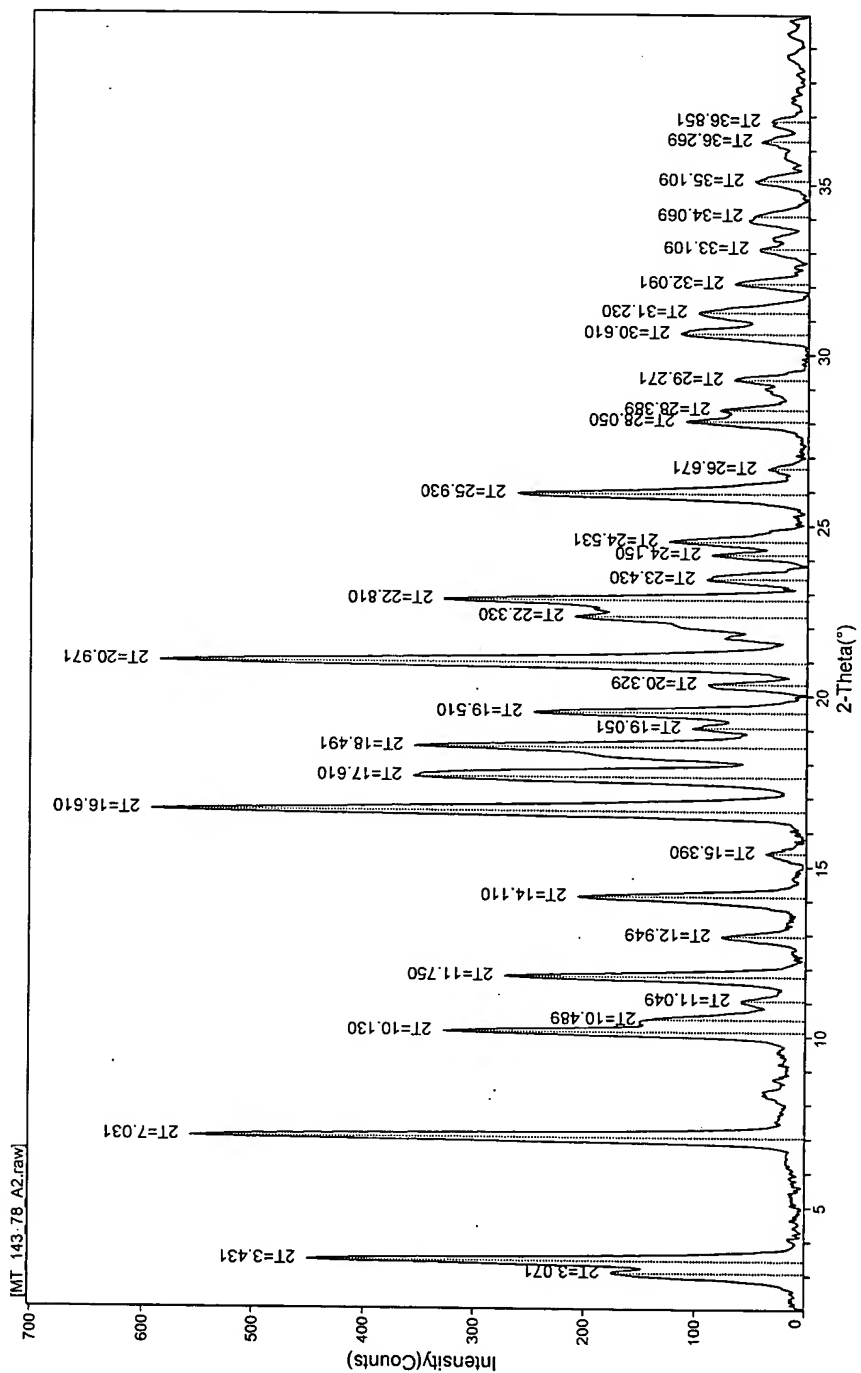


FIGURE 50

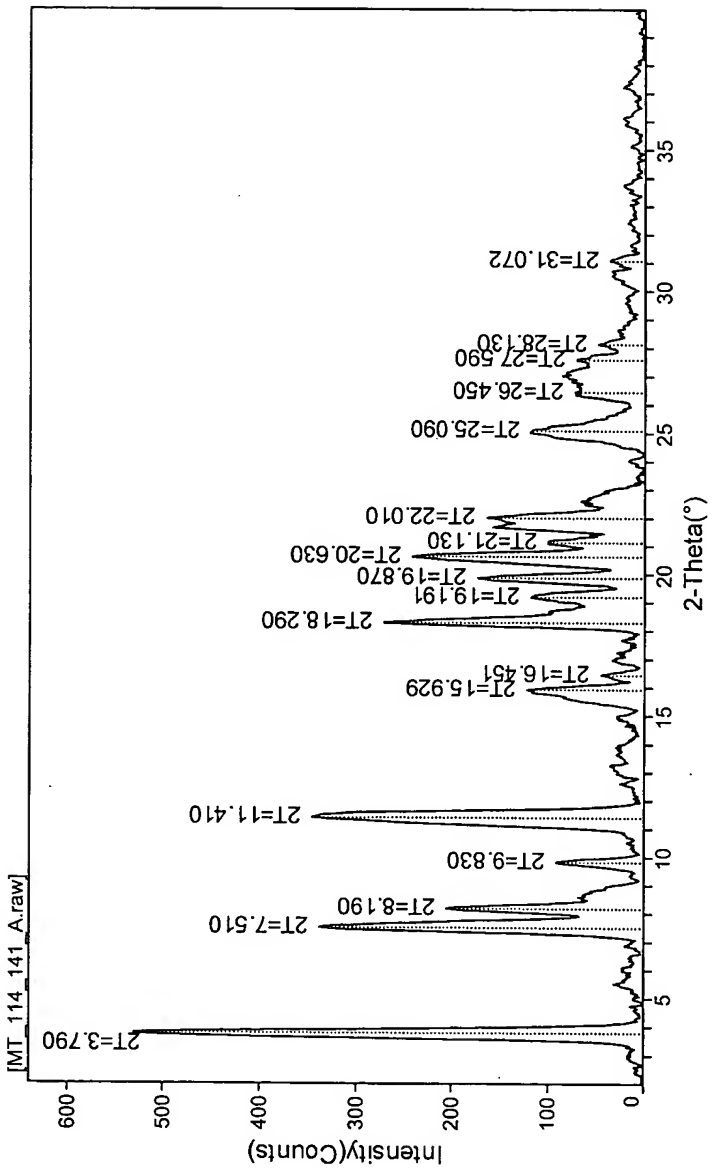


FIGURE 51

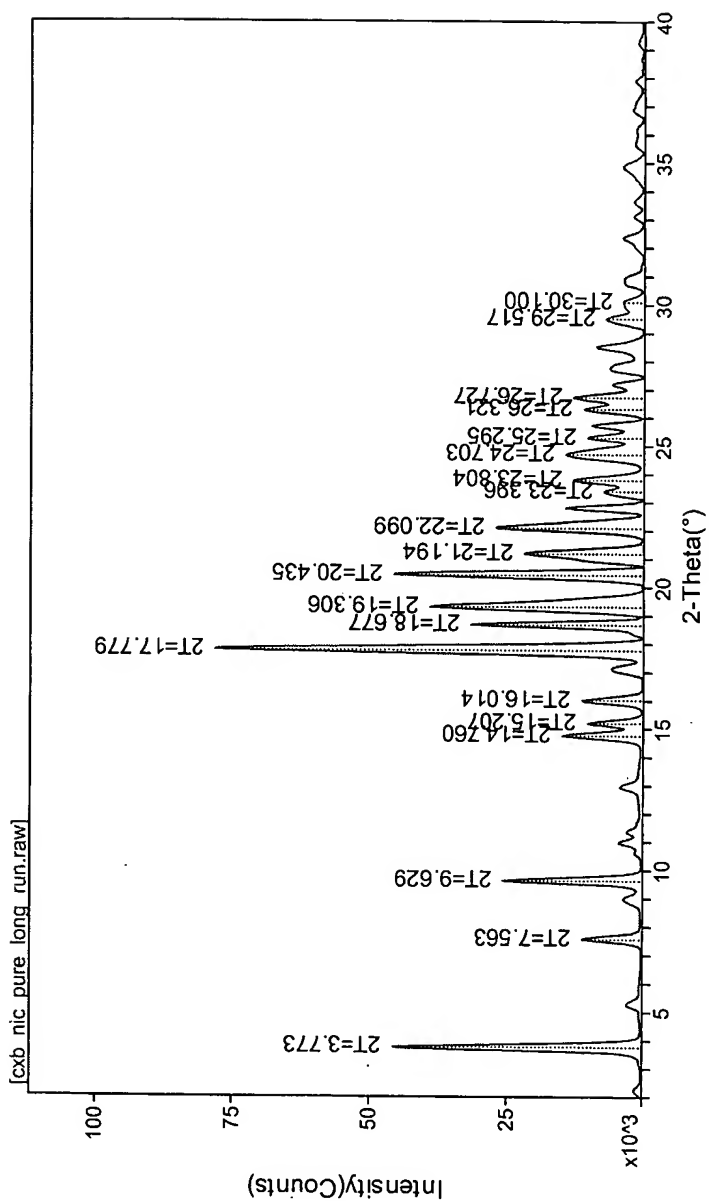


FIGURE 52

17% RH

Celecoxib Na hydrate

Batch No. MT\_138\_A

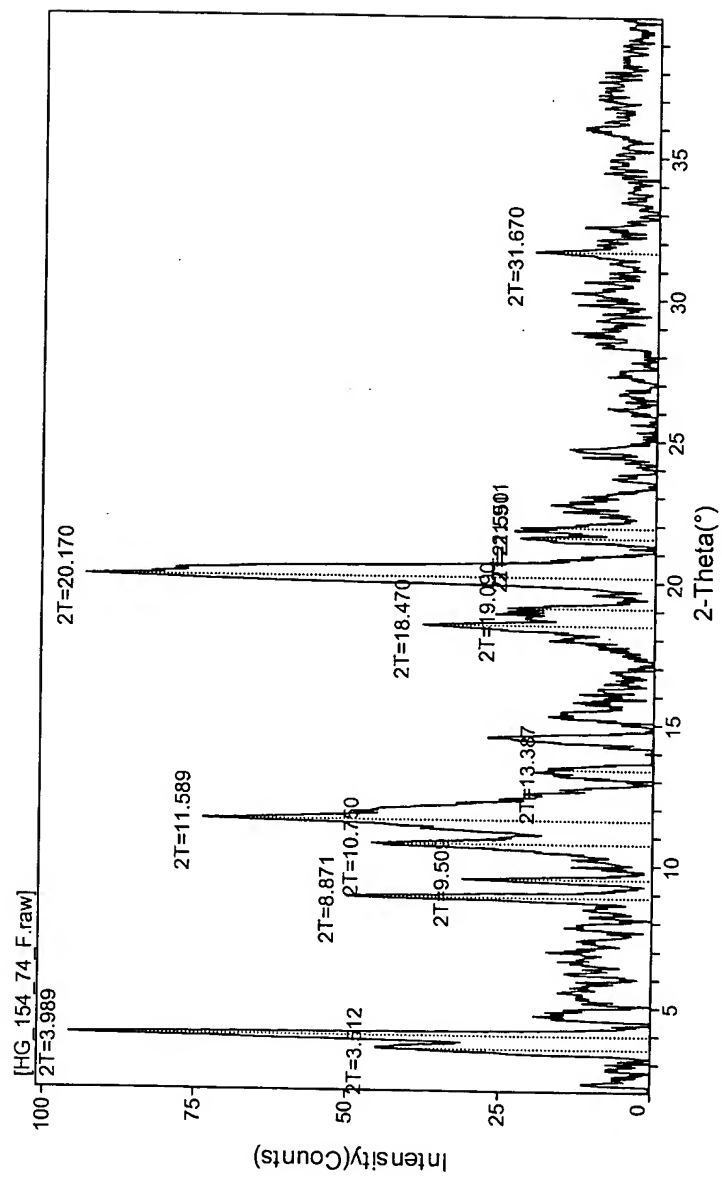


Figure 53



31% RH

Celecoxib Na hydrate

Batch No. MT\_143\_138\_A

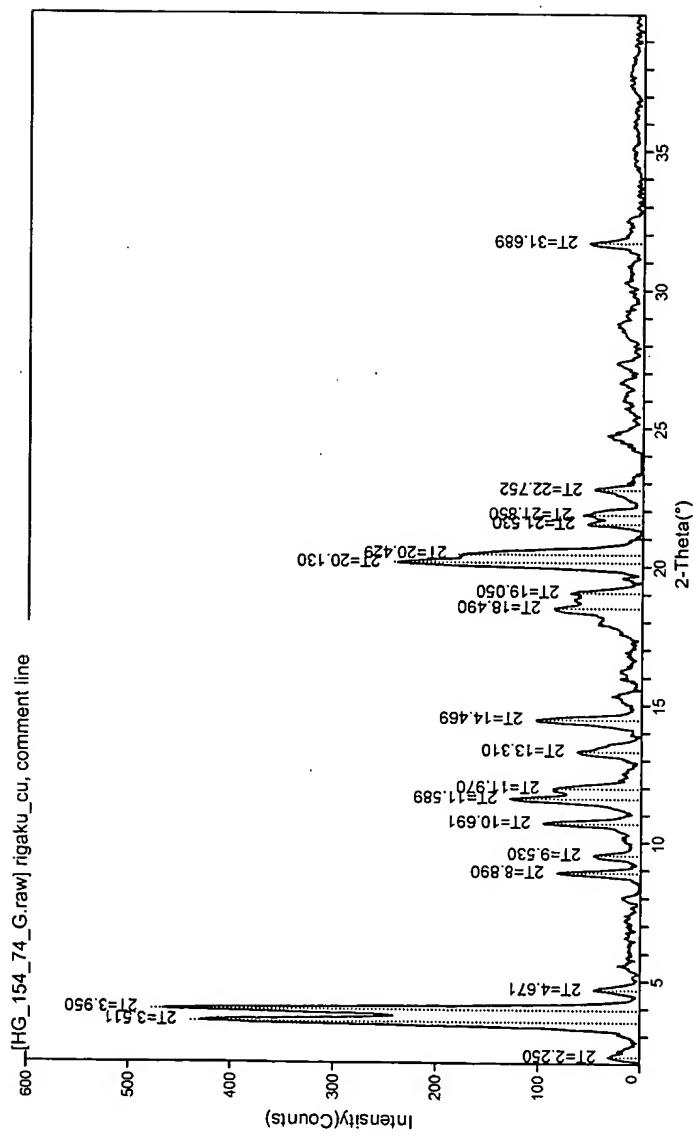


FIGURE 54

59% RH

Celecoxib Na hydrate

Batch No. MT\_143\_38\_A

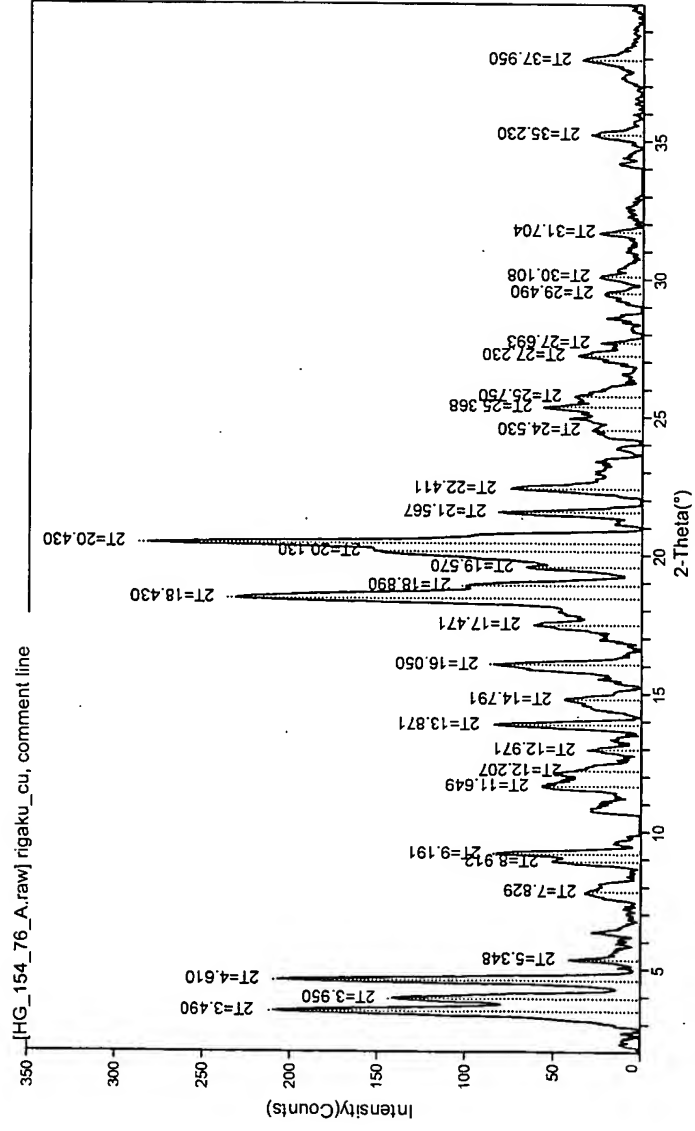


FIGURE 55

74% RH

Celecoxib Na hydrate

Batch No. MT\_143\_138\_A

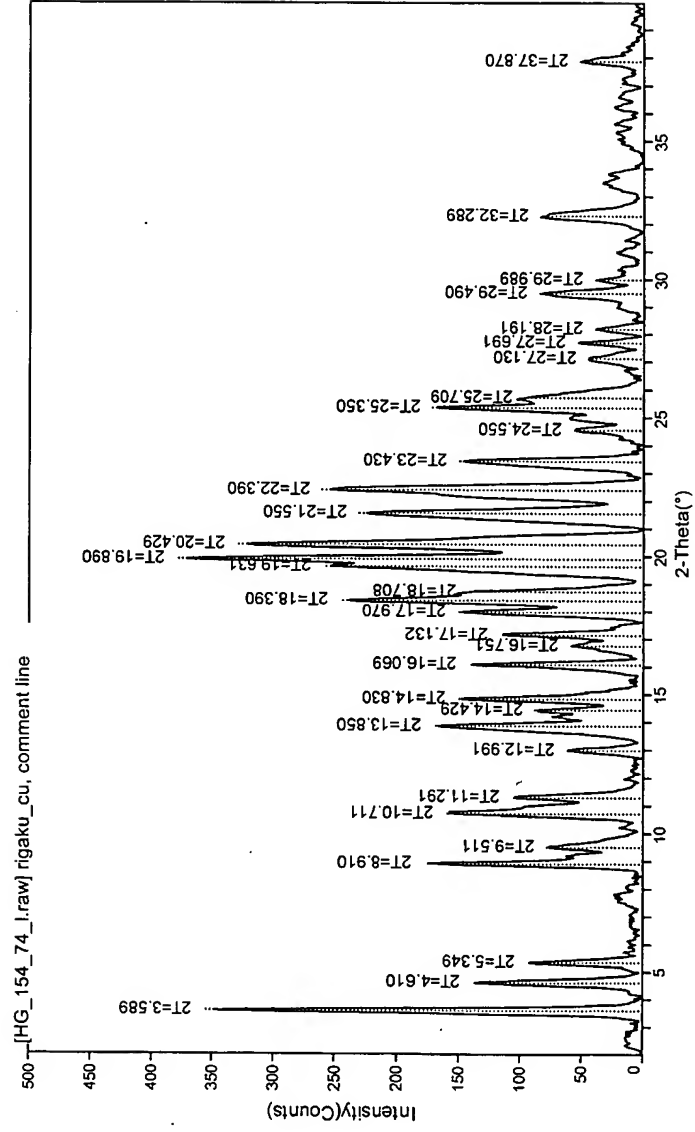


FIGURE 56

17% RH

Celecoxib Na propylene glycol solvate

Batch No. MT\_143\_25

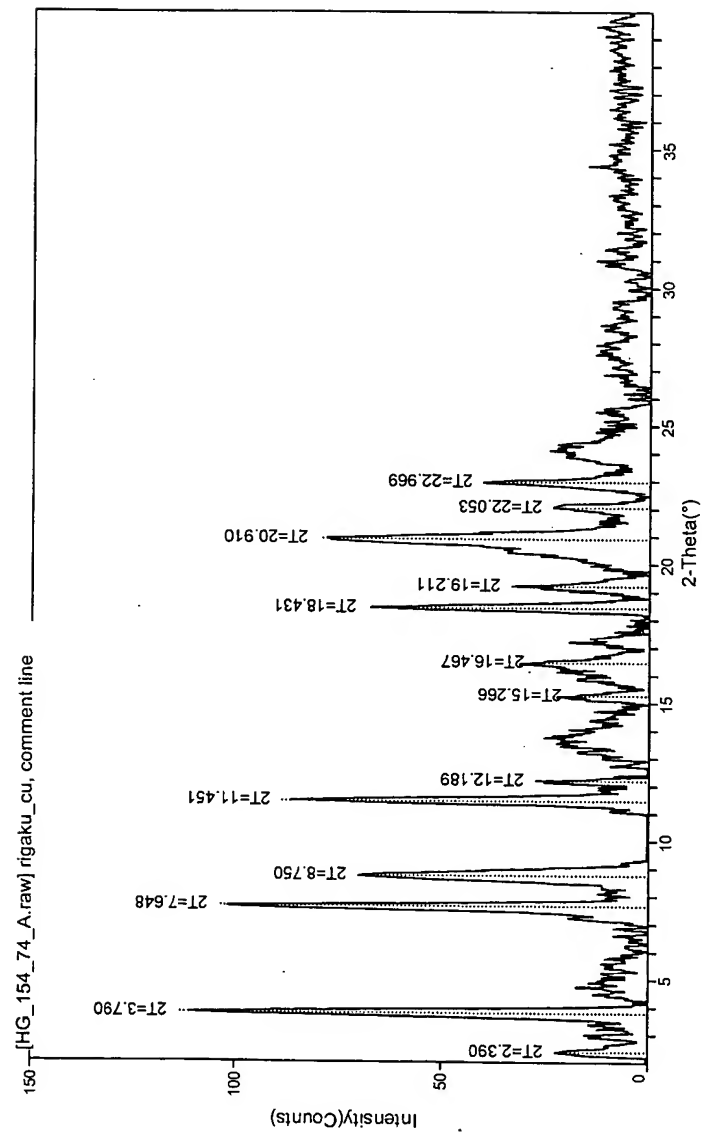


FIGURE 57

31% RH

Celecoxib Na propylene glycol solvate

Batch No. MT\_143\_25

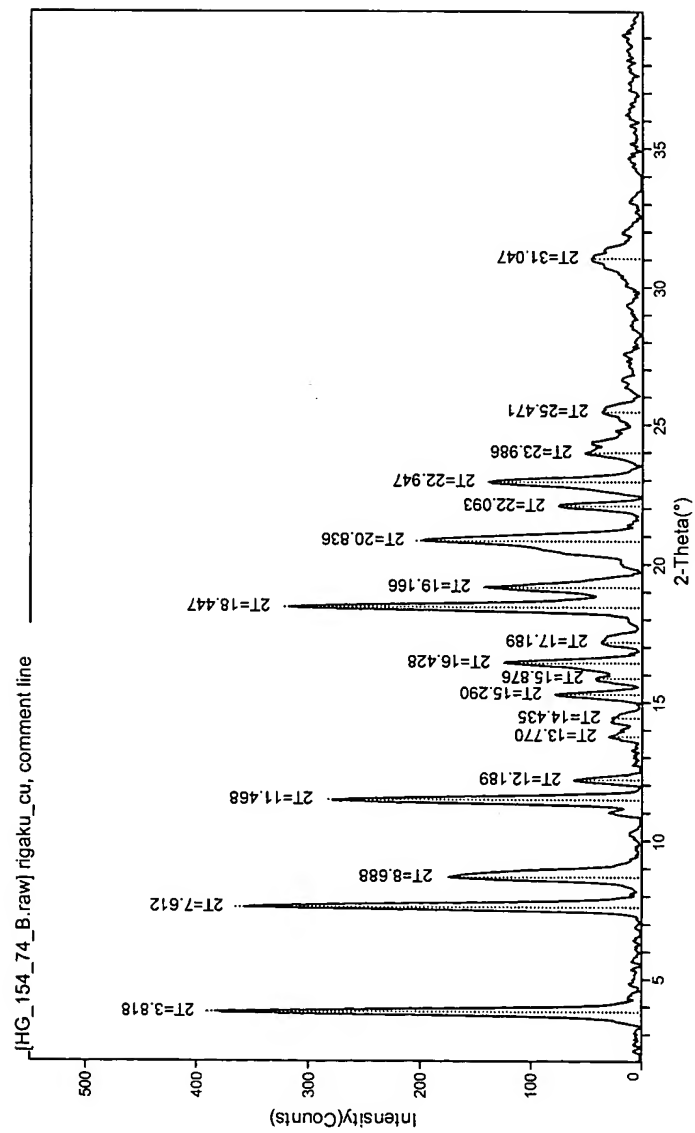


FIGURE 58

59% RH

Celecoxib Na propylene glycol solvate

Batch No. MT\_143\_25

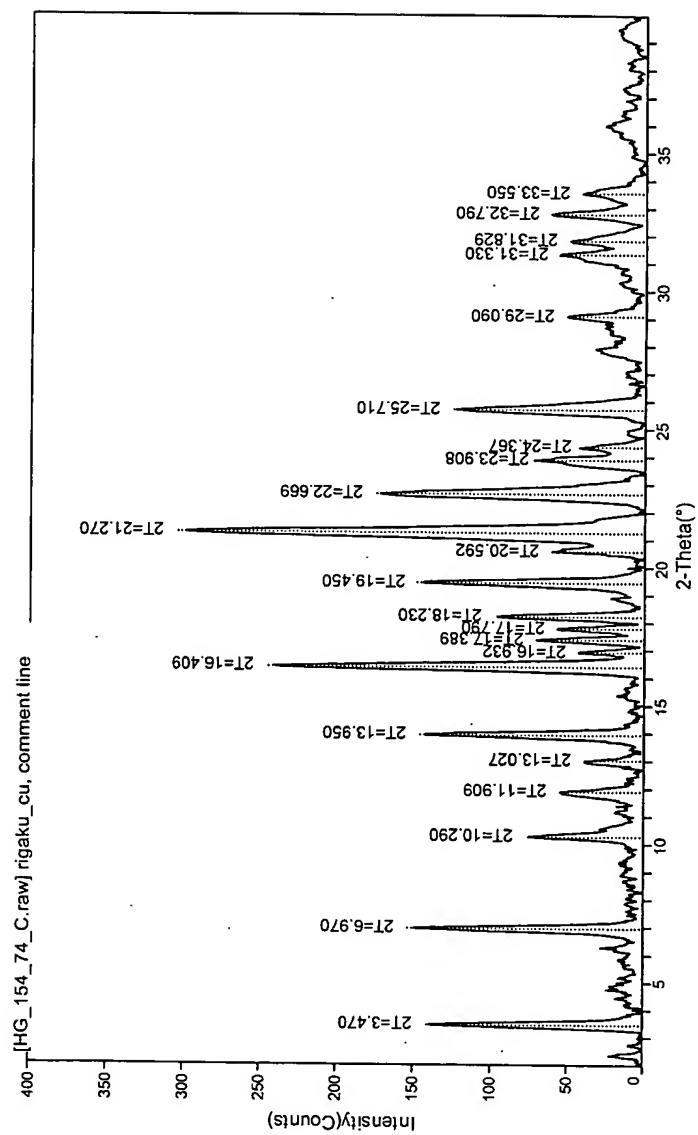


FIGURE 59

74% RH

Celecoxib Na propylene glycol solvate

Batch No. MT\_143\_25

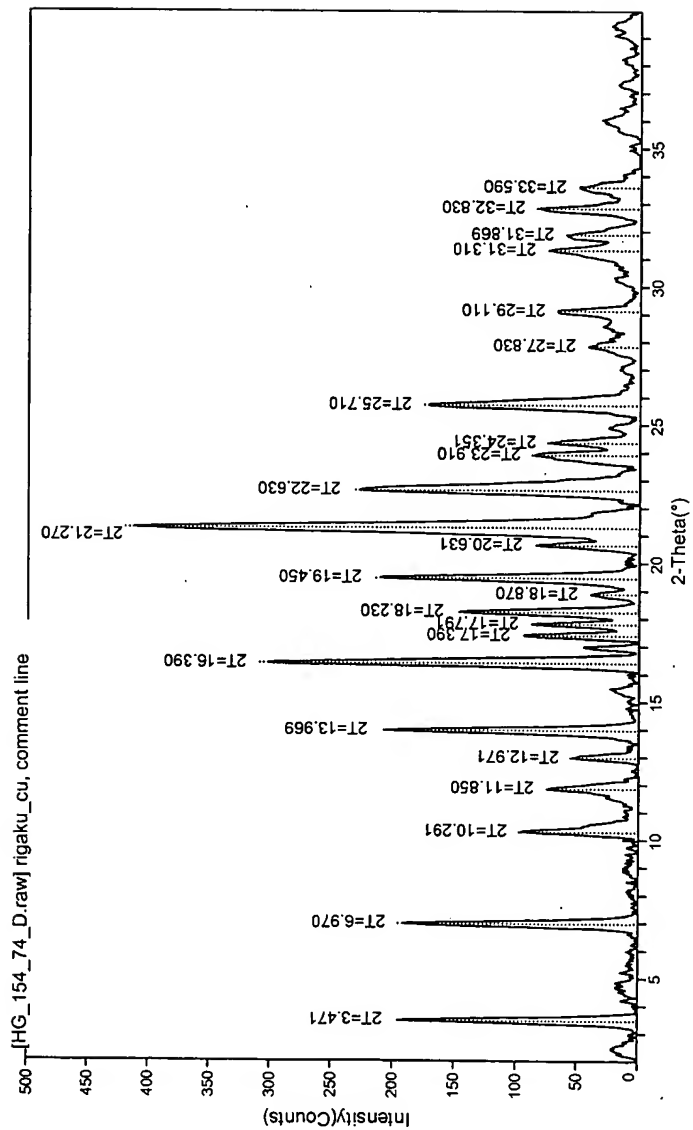


FIGURE 60

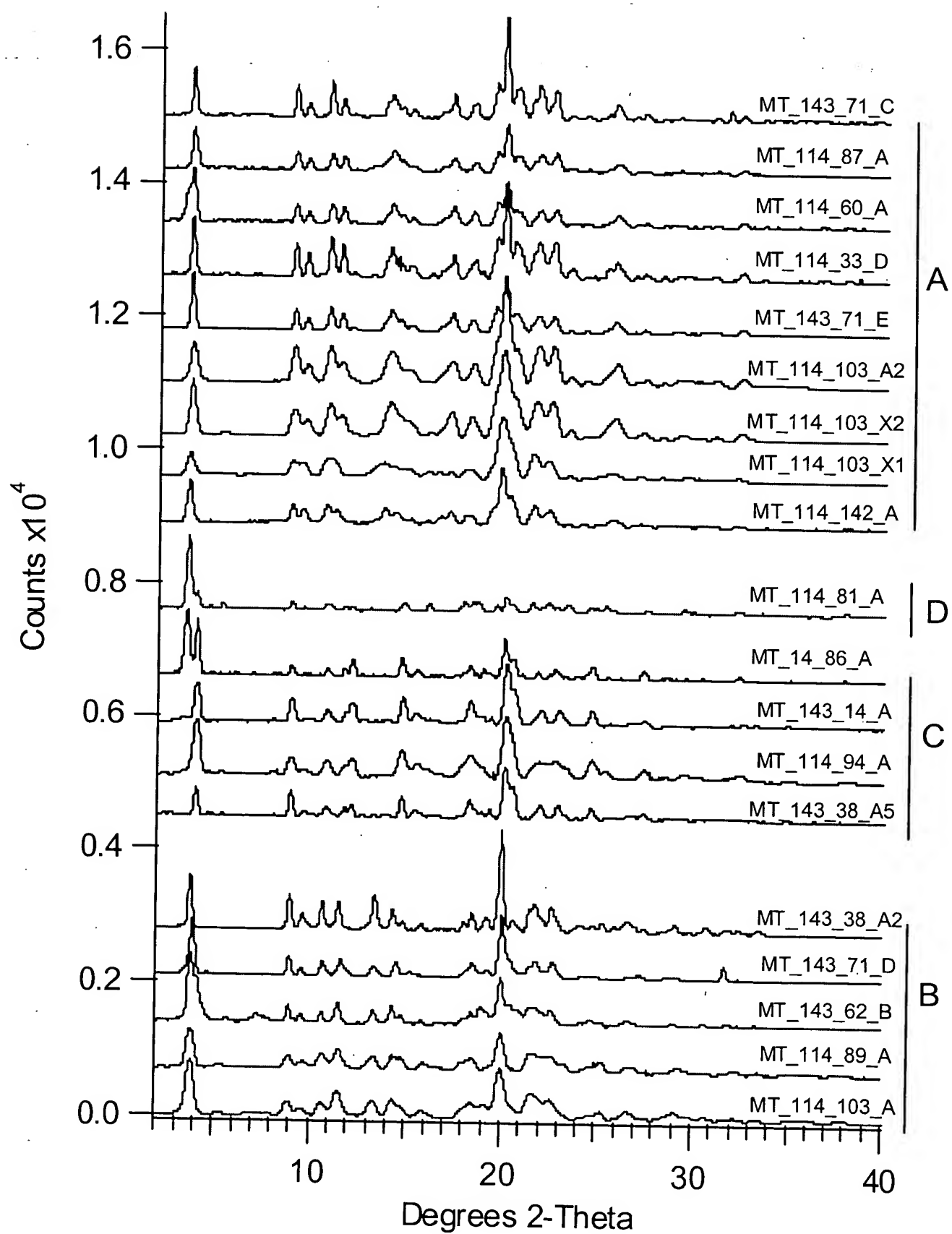


Figure 61



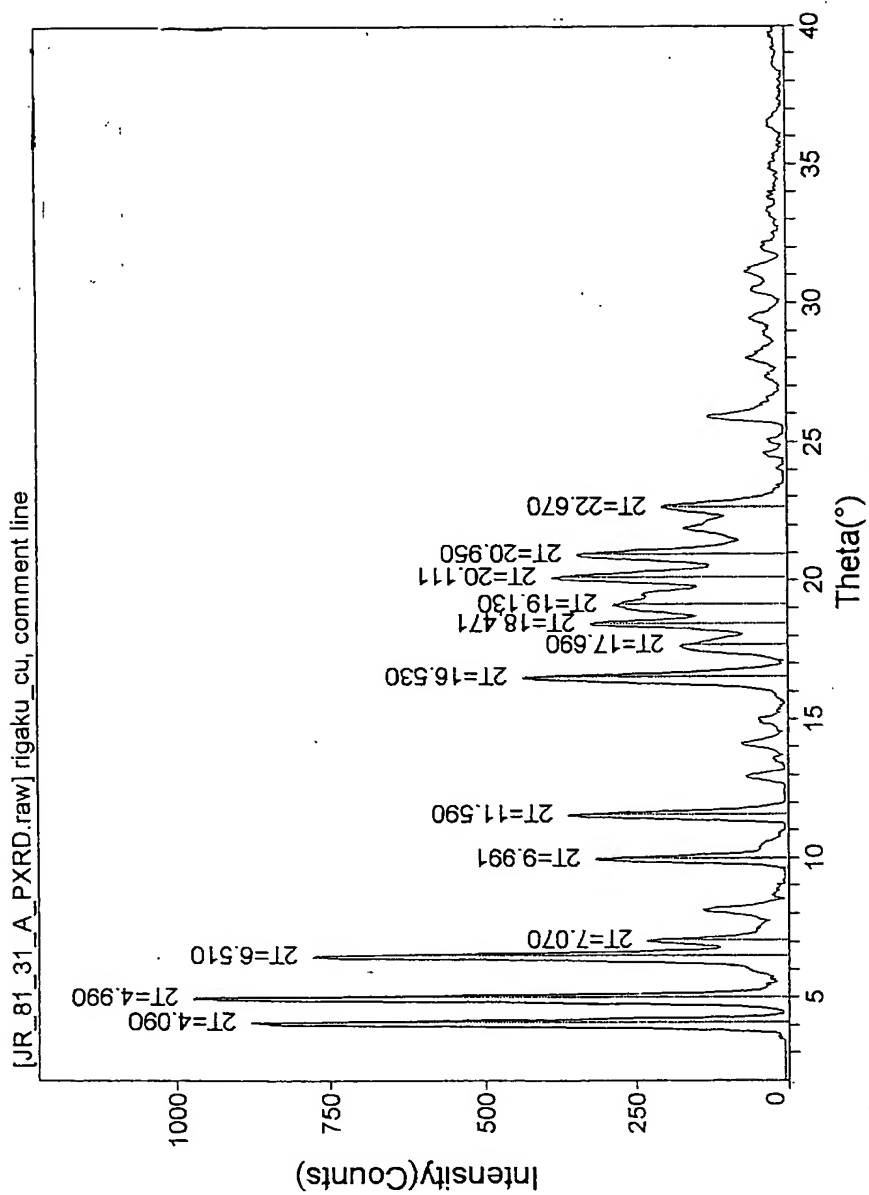


FIGURE 62